hand & power TOOLS catalogue

Record

Record Tools

RECORD TOOLS LTD PARKWAY WORKS SHEFFIELD S9 3BL.

Contents

	Page
Introduction	2
Metalwork Vices	4
Metalwork Vice Accessories	14
Woodworking Vices	16
G-Cramps	20
Bar Cramps	23
Woodworking Planes	26
Bolt Cutters	33
Cable and Wire Cutters	39
Pliers and Nippers	42
Hand Punch	46
Tinmen's Snips & Shears	47
Pipe Wrenches	50
Pipe Cutters	55
Tube Cutters	57
Powered Pipe Saw	58
Pipe Vices	59
Portable Vice Stands	61
Pipe Benders (also see page 73)	62
Tube Benders	72
Powered Pipe Benders	73
Threading Machines	77
Power Die Stocks	88
Punners & Tampers	93
Special Cramps & Vices	94
Spares	95
Index	96

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Introduction

Parkway

Sheffield is the traditional home of pioneering steel makers, cutlers and hand tool manufacturers.

In 1898 one of these companies, known as C & J Hampton, began by making ships shackles and flywheel castings. By 1909 their product range had expanded to include pipe tools, vices, bolt cutters and a new brand name 'Record'; a name which would eventually be forged, cast and rolled into millions of tools, and find its way to almost every corner of the world.

Today that name is synonymous with an array of products made by the Record Holdings Group of Companies.

Within this Group we manufacture those same pipe tools, vices and bolt cutters, as well as cramps, pliers, planes, tinsnips and other traditional hand tools, but you will also find in these pages; hydraulic benders, threading machines and powered saws.

Parkway Works is a sixteen acre site, northwest of the city centre and close to the major national road and rail links.

Here you will find administration, warehousing, sales and manufacturing facilities which account for most of our multi million pound turnover.

First and foremost, Record are designers and manufacturers.

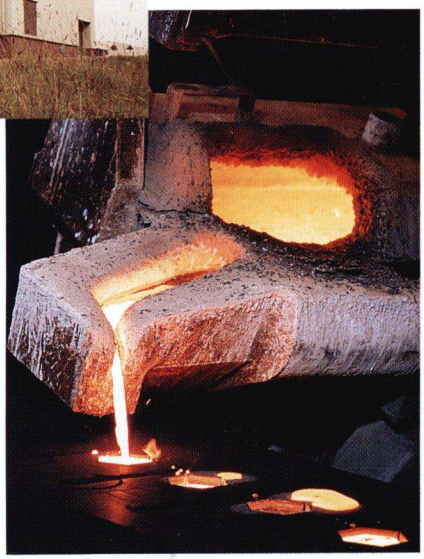
The heavy side of our investment programme will be found in the £6,000,000 Disa foundry, the modern paint plant, ultrasonic cleaning units and the computer controlled machining centres which are rapidly replacing the traditional borers and milling machines. Tradition can however still be found in our commitment to quality. Quality of design, materials and craftsmanship: a commitment which is now being formalised by the introduction of BS5750 Part 2 Quality Management Systems.

Known in Europe as EN29002 and elsewhere in the world as ISO9002, this is the standard which defines quality parameters for everything from raw materials to packaging and sales. At the time of writing, our Disa foundry, city centre forge and Gilbow factory (snips and shears), and our pliers factory in Warrington, Cheshire have all been awarded BS5750 registration and arrangements for registration of the remaining Parkway facility are at an advanced stage.

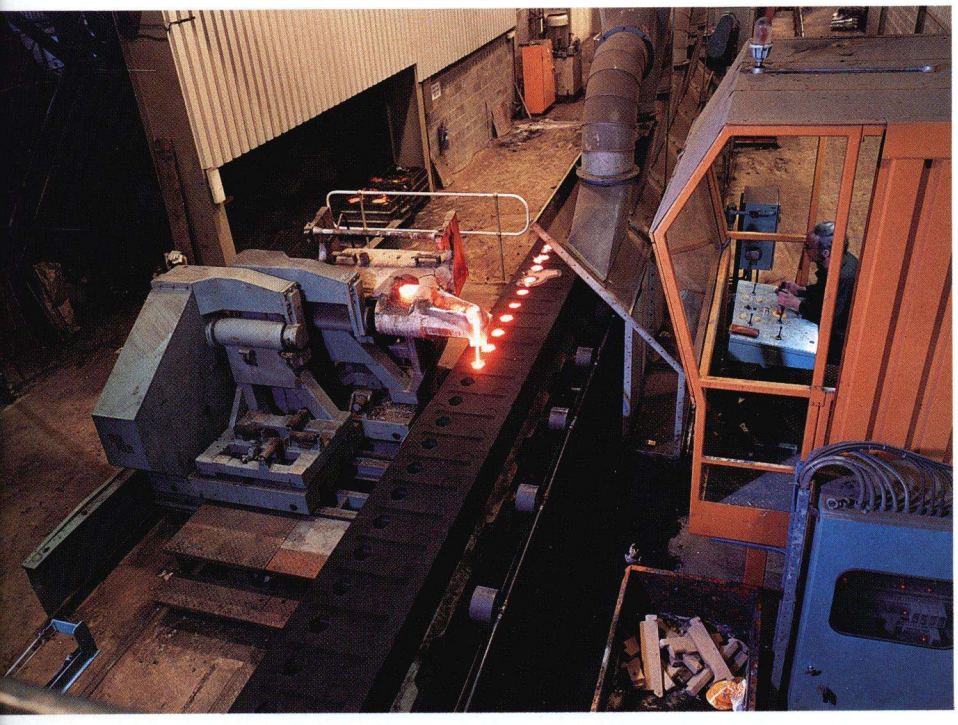
In short, Record Tools is a large, lively, energetic company, always changing, yet always the same, with a long tradition of good value and customer satisfaction.

Record

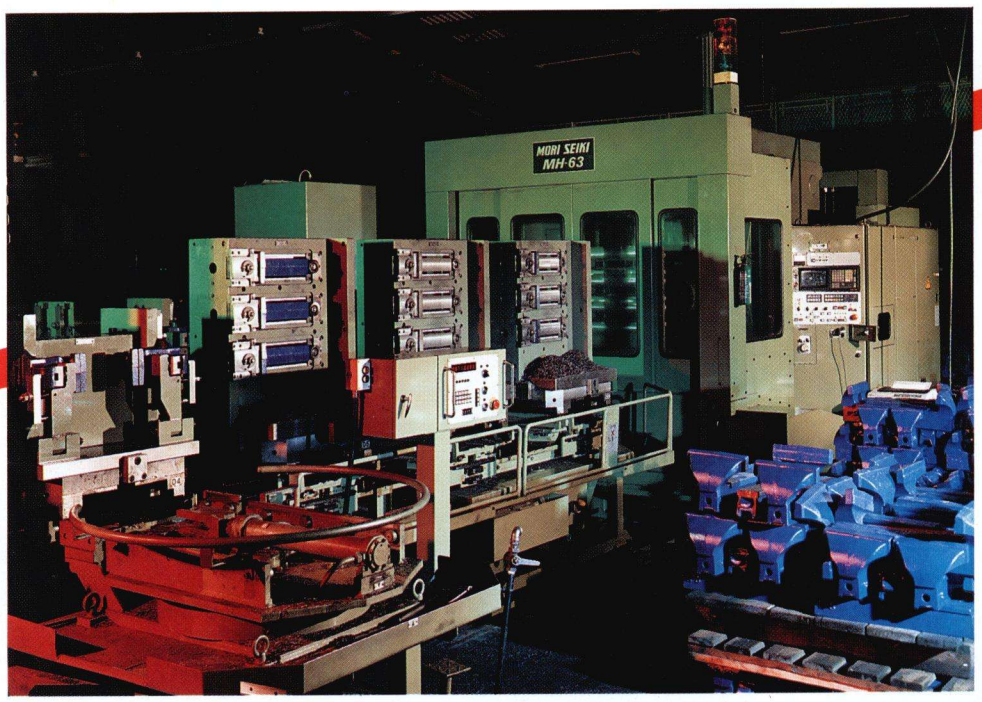
The Disamatic foundry at Parkway –



– and the 28mtr. vice moulding line



Computer controlled machining centres are rapidly replacing traditional machines



Record Tools Ltd Parkway Works Sheffield S9 3BL
Telephone (0742) 449066. Fax (0742) 434302. Telex 547139

vices

Record vices are probably the best of their type anywhere in the world, known for the high quality of design, material and manufacturing standards.
Although the range contains many different shapes and sizes all the vices shown fall into one of three groups.

Light Duty
Medium Duty
Heavy Duty

Light and Medium duty vices are constructed from high quality grey iron castings of guaranteed strength under compression. They have a low impact resistance and should not be used where heavy hammering is anticipated.
Heavy duty vices have a high impact resistance and are cast from S.G. Ductile iron, a strong flexible material comparable to steel in its characteristics. All castings are machined on Computer Controlled equipment for a consistently high standard of finish.

FEATURES (CUTAWAY VIEW)

A Replaceable Hardened Steel jaw plates.

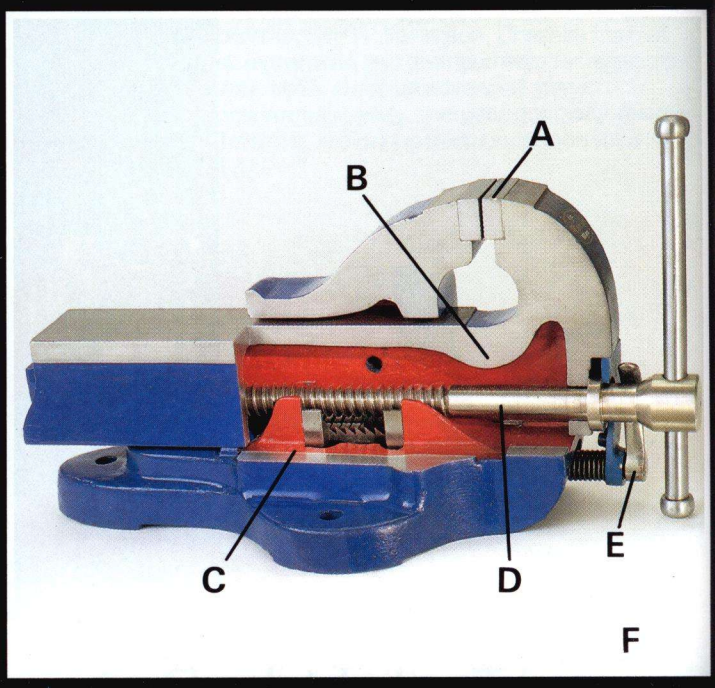
B Precision CNC machined components and bearing surfaces for smooth operation and reliability.

C Long Unbreakable Nut locked and dovetailed into the body.
Ensures maximum thread surface contact and constant alignment between the body and sliding jaw.

D High grade steel main screw and handle.

E Quick release mechanism fitted to Engineers and Fitters vices unlocks the main screw to allow rapid movement of the jaw.

F All components are available as spares in case of wear or damage.



Mechanics Vices

Medium Duty

FIBRE GRIPS AVAILABLE

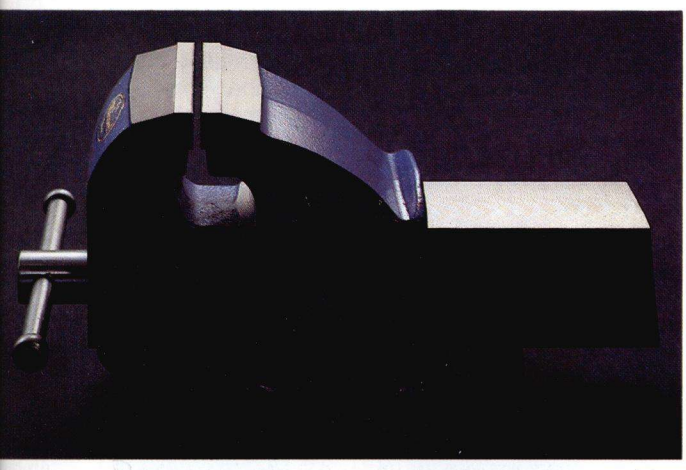
SWIVEL BASE AVAILABLE

This is the most commonly used of all metalwork vices. In workshops and garages across the world you'll find Record Mechanics vices bolted to benches and worktops.

Rigid and robust, the body and sliding jaw are cast from close grained grey iron which is CNC machined on all friction surfaces for a smooth reliable action.

The jaws, handle and main screw are steel, the latter having a two start rolled acme thread to speed the jaws from fully closed to fully open with a minimum of winding.

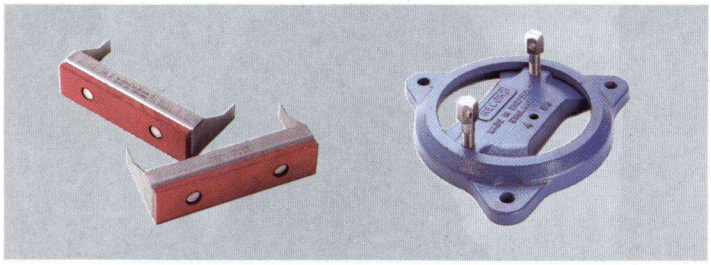
Like all Record vices the deceptively simple mechanics is a very refined design.



Every line of the castings is focused on the point of maximum compression between the jaws. The lips on the front of the slide and back of the body guide filings and fragments away from the screw and friction pads.

And the whole mechanism is designed for safety in depth so that the handle will bend before the body is overstressed. A margin of safety which we build into every Record vice.

Cat No.	Jaw width		Jaw opening		Jaw depth		Approx weight with stationary base		With swivel base	
	in	mm	in	mm	in	mm	lb.	kg	lb.	kg
1	3	75	3.3/4	95	1.7/8	50	12	5.4	15	6.8
3	4	100	4.3/4	120	2.3/4	70	33	15.0	41	18.6
4	4.1/2	115	5.1/2	140	3	80	42	91.1	52	23.6
5	5	125	6.1/2	165	3.1/4	85	53	24.0	63.1/2	28.8
6	6	150	8	205	3.1/2	90	70	31.8	87	39.5
8	8	205	9.1/4	235	4	100	84	38.1	101	45.8



Details of Fibre Grips, Swivel Bases and other Vice Accessories will be found on pages 14 and 15.

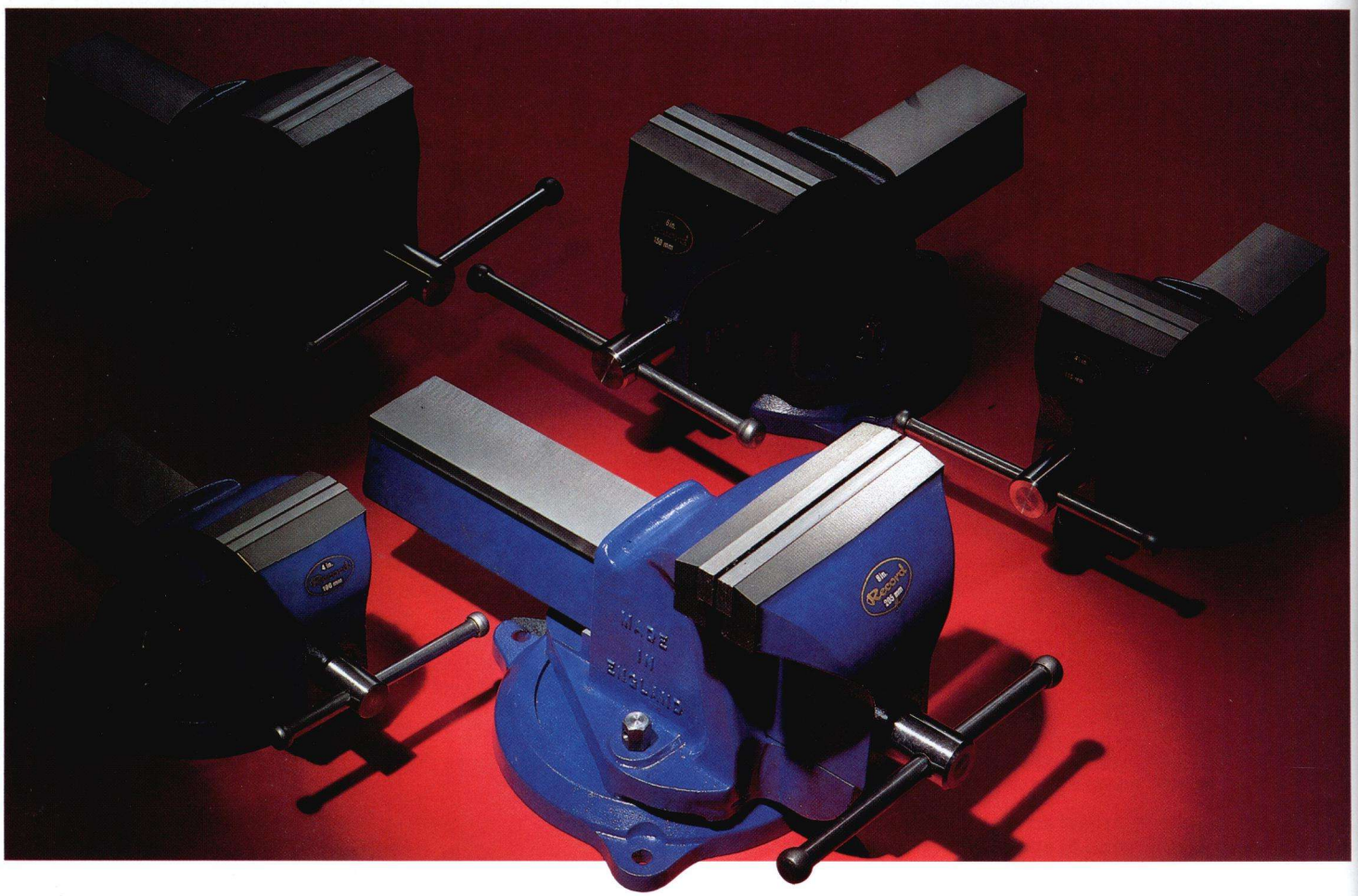
Mechanics Vice 2090
Lightweight Medium Duty

FIBRE GRIPS AVAILABLE

This recent addition to our range has been structured to provide a high strength to weight ratio. A 3 1/2" vice weighing 6.9 kg is much lighter for its size than the 4 1/2" Mechanics No 4 at 18.6 kg. This makes the 2090 ideal for fitting to vice stands and portable benches.

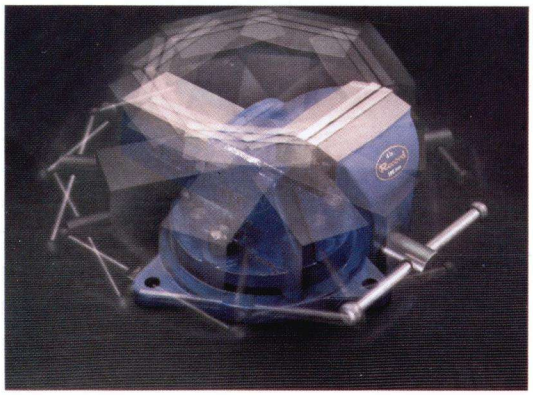
The double sided jaw plates are externally bolted and can be quickly reversed - smooth faces or serrated faces, and the 2090 also features integral pipe jaws 15 to 30mm capacity.

Cat No.	Jaw width		Jaw opening		Jaw depth		Pipe Jaw capacity o.d.		Approx weight	
	in	mm	in	mm	in	mm	in	mm	lb	kg
2090	3.1/2	90	4	100	2.5/8	67	1.1/8	30	15.1/4	69



Mechanics Vices
Medium Duty with Swivel Bases

FIBRE GRIPS AVAILABLE



Swivel bases can be fitted to any Mechanics Vice except the 2090. All the vices in this VS Range are fitted with this feature as standard equipment.

The Swivel Base allows the vice to be rotated through 360 degrees and locked in any desired position. This can be a useful advantage in confined spaces or where the angle of the vice has to be adjusted to accept work of varying lengths.

Cat No.	Jaw width		Jaw opening		Jaw depth		Approx weight	
	in	mm	in	mm	in	mm	lb	kg
3VS	4	100	4.3/4	120	2.3/4	70	41	18.6
4VS	4.1/2	115	5.1/2	140	3	80	52	23.6
5VS	5	125	6.1/2	156	3.1/4	85	63.1/2	8.8
6VS	6	150	8	205	3.1/2	90	87	39.5
8VS	8	205	9.1/4	235	4	100	101	45.8

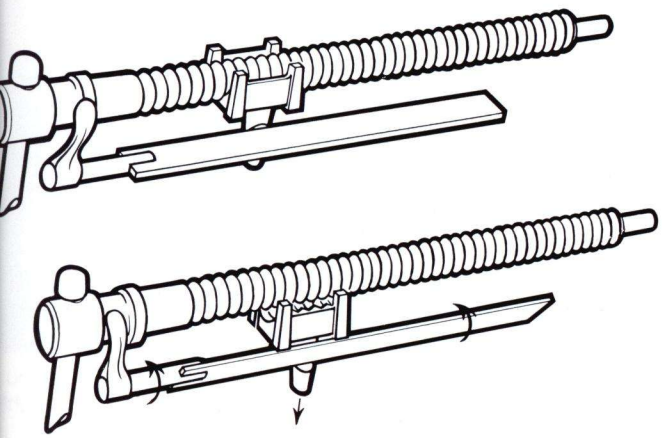
Quick-Release Fitters Vices

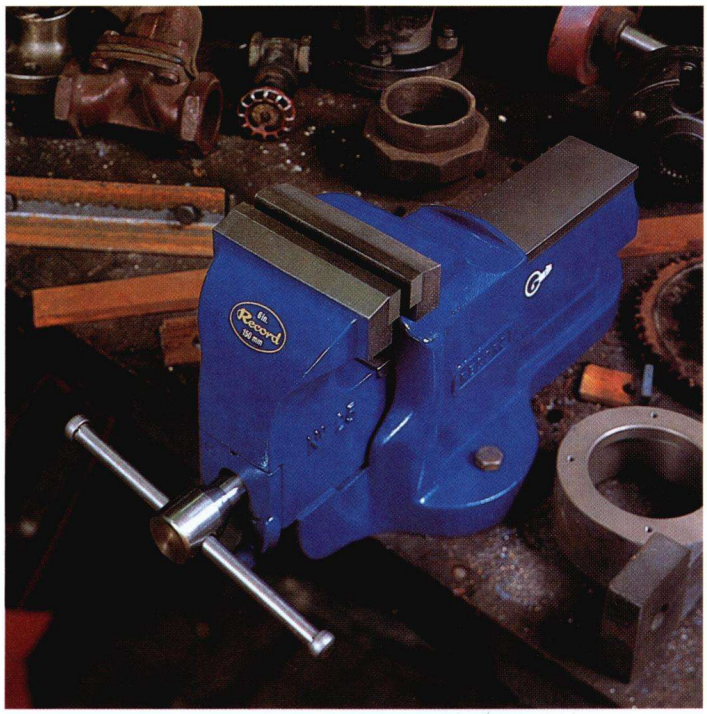
Medium Duty

FIBRE GRIPS AVAILABLE

Designed for fitting, filing and large assembly work, this vice is standard equipment for many industrial and training workshops.

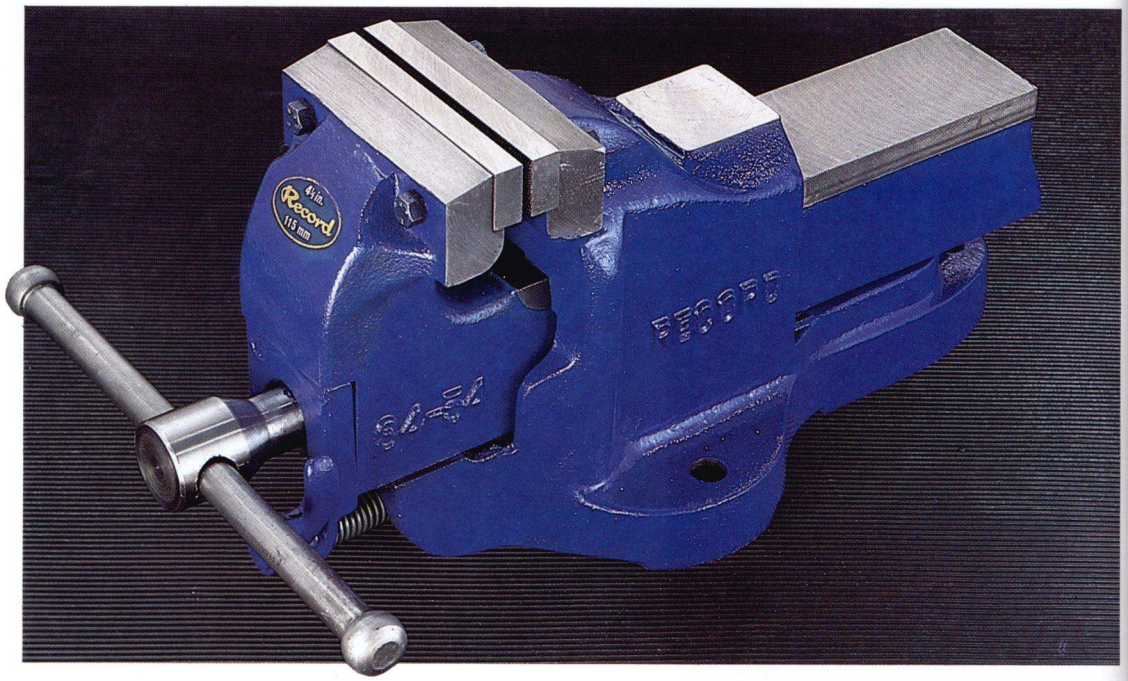
The quick release mechanism disengages the main screw allowing rapid movement of the slide. A valuable time-saving feature in repetitive work situations.

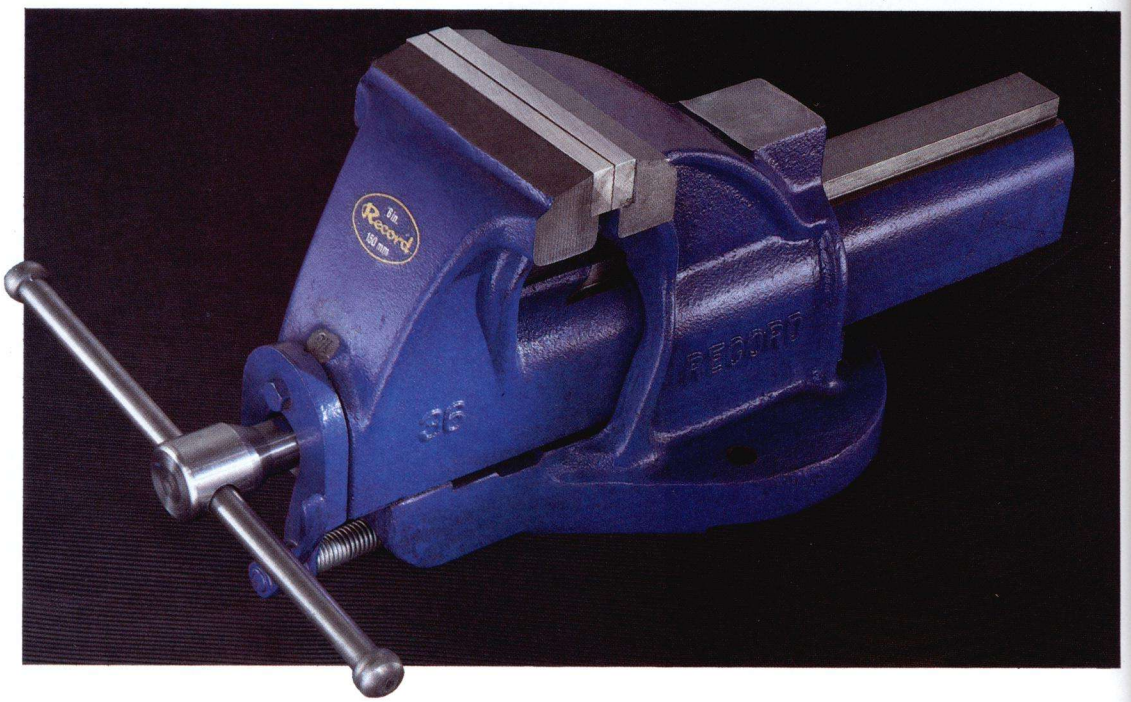


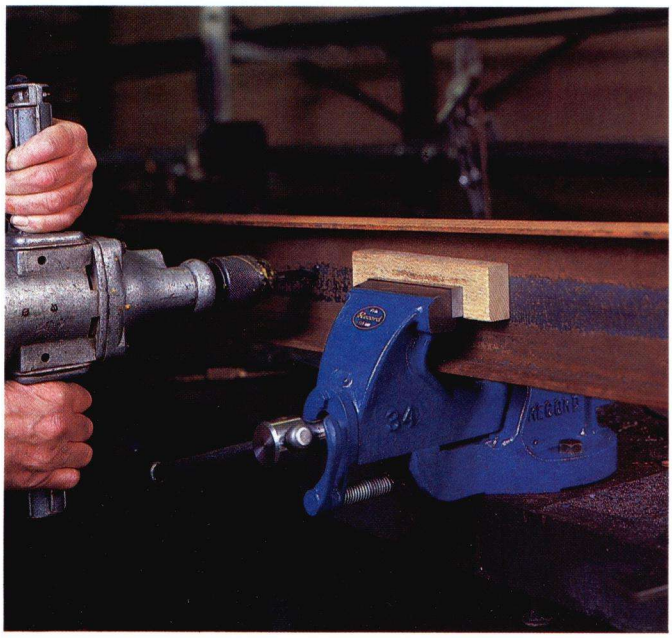


Cat No.	Jaw width		Jaw opening		Jaw depth		Approx weight	
	in	mm	in	mm	in	mm	lb	kg
23	4.1/4	110	6.1/2	165	3.3/8	85	61	27.7
25	6	150	8.1/4	210	4.1/2	115	90	40.9

GUARANTEED UNBREAKABLE







Quick-Release Engineers Vices

FIBRE GRIPS AVAILABLE

Heavy Duty 84.34 & 36

Literally and metaphorically, these vices are designed and manufactured to take a lot of hammer.

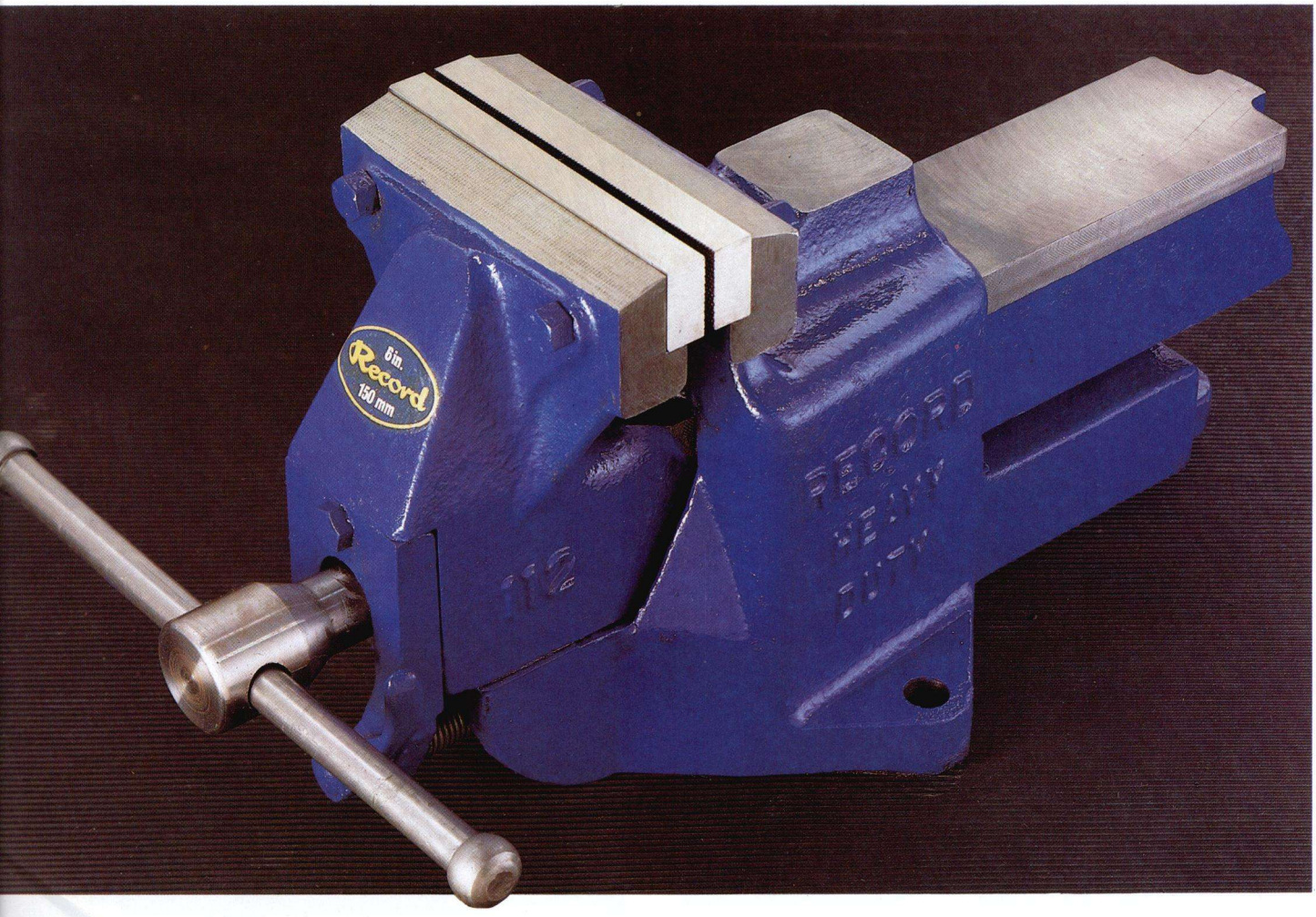
Made from S.G. Ductile iron of high impact resistance each vice has an integral anvil for shaping and beating, together with a quick-release mechanism for rapid slide adjustment.

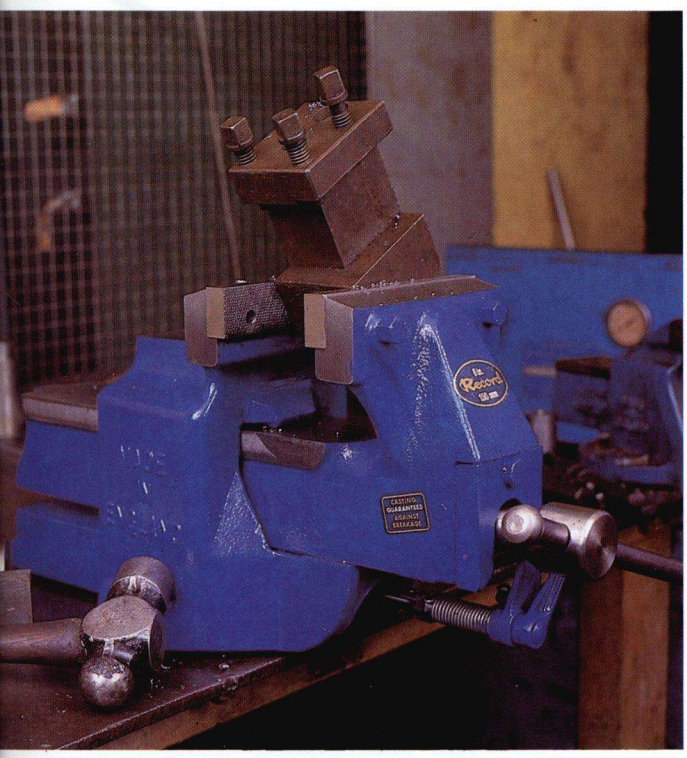
A number of factors will determine which Engineers Vice you choose, but a good rule-of-thumb to begin with is that the weight of the vice should compliment the weight of the work.

84.34 Lightest and smallest of the range, this is a natural development of the medium duty Fitters vice built for similar but more demanding applications.

36 Next heaviest, (but a lightweight in its class) the 'streamline' shape of the 36 provides a wide throat under the jaws for large irregular work.

CONTINUED





Quick-Release Engineers Vices

FIBRE GRIPS AVAILABLE

Heavy Duty 112 & 114

At 72lbs (32.7kg) and 86lbs (39.0kg) respectively, these are the heaviest vices in the Record stable.

The reinforced body and slide and large diameter main screw and through bolted jaws invest these vices with the strength and resilience to withstand the most demanding work.

Cat No.	Jaw width		Jaw opening		Jaw depth		Approx weight	
	in	mm	in	mm	in	mm	lb	kg
84-34	4.1/2	115	5.3/4	145	3.1/8	80	38	17.2
36	6	150	7.1/2	190	4	100	63	28.6
112	6	150	7.1/4	185	3.3/4	95	72	32.7
114	8	205	9.1/4	235	4.1/2	115	86	39.0

GUARANTEED UNBREAKABLE

Multi-Purpose Vice

Heavy Duty

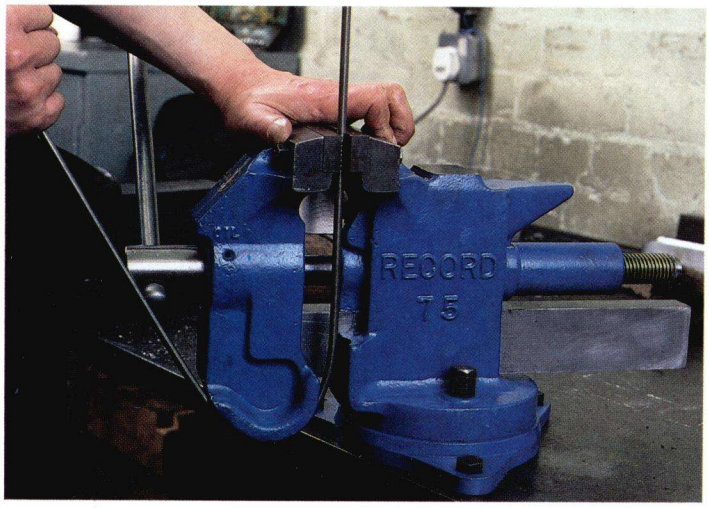
FIBRE GRIPS AVAILABLE

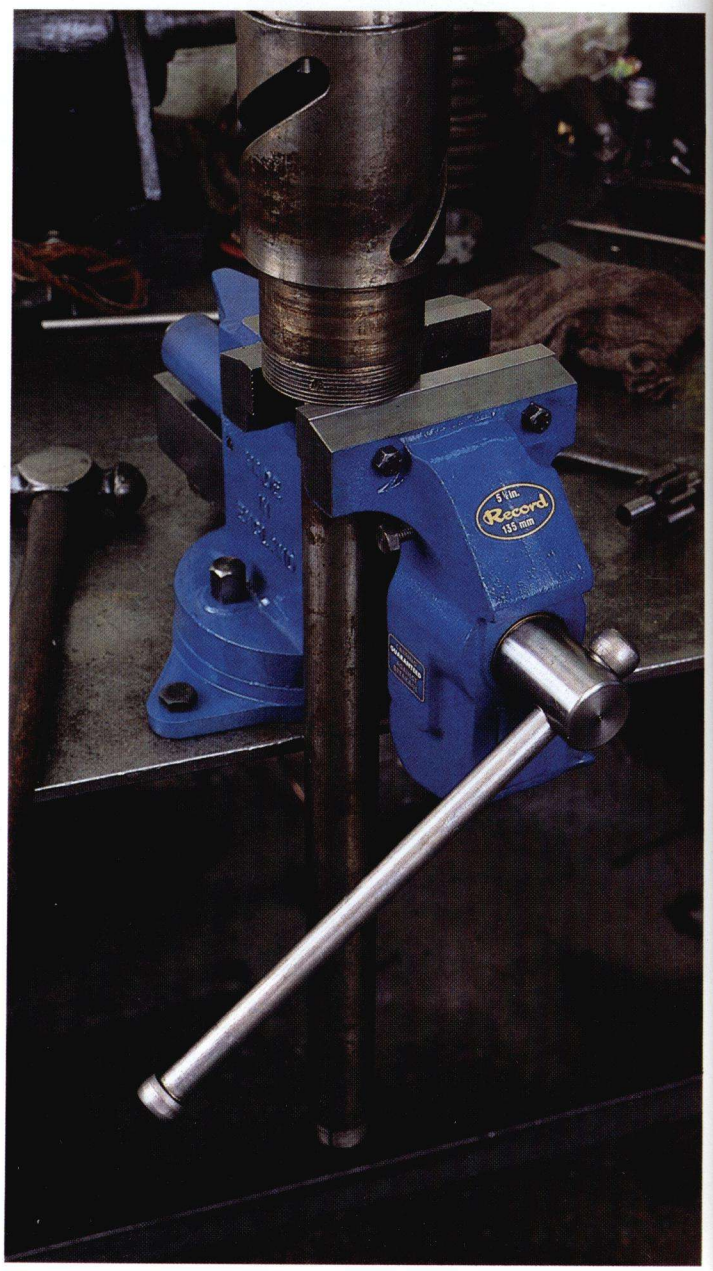
The 75 is a heavy duty Ductile iron workshop vice with a variety of features and attachments.

The slide is made from solid steel for strength and rigidity. The body mounts an anvil and shaping horn for beating and forming.

The externally bolted steel jaws are offset 3" (75mm) left of centre to accommodate long vertical work. Additional features include a rod/pipe bending former, integral 70mm pipe jaws, fibre grips and a 360 degrees swivel base.

Good value and exceptional versatility for the garage or workshop.





Cat No.	Jaw width		Jaw opening		Jaw depth		Pipe jaw capacity o.d.		Approx weight	
	in	mm	in	mm	in	mm	in	mm	lb	kg
75	5.1/4	135	7	180	3.3/4	95	2.3/4	70	52	23.6

The Reversible Vice
Medium Duty

A compact and adaptable 3 1/2" (90mm) vice with a wealth of metal and woodworking applications.

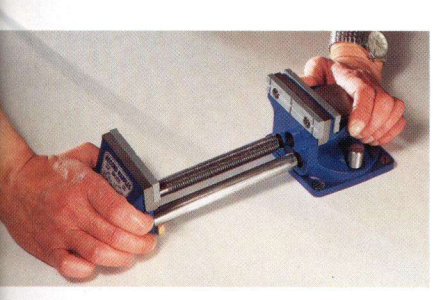
The unique Polypropelene jaws impart a firm grip and a soft touch on hard or delicate surfaces.

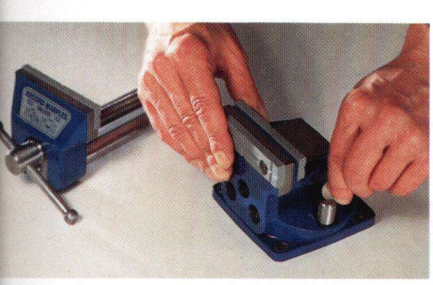
Under pressure these jaws deform around the contours of the workpiece, and return to their original shape when then work is removed.

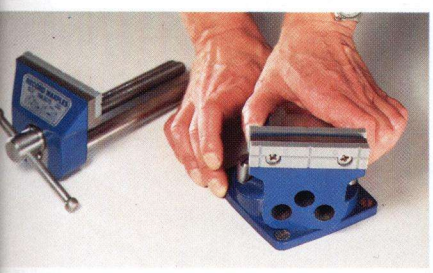
The jaw capacity can be doubled from 3 1/2" (90mm) to 7" (180mm) by removing the main-screw/guide rods/sliding jaw section and placing itin the back of the body, hence the term 'reversible'.

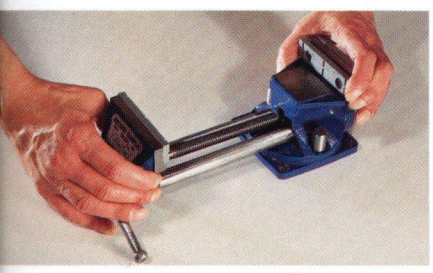
A robust, cast grey iron, body and sliding jaw are allied with two steel guide rods and the main screw for a smooth positive action.

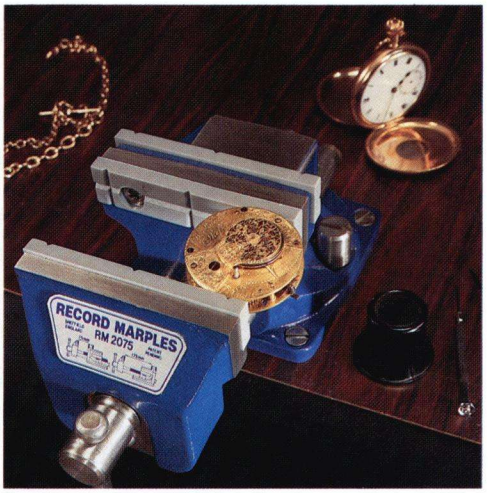
Integral 22mm pipe jaws and a 360 degrees swivel base complete a list of features which make the 2075 one of the most versatile, adaptable and economic holding tools on the market.

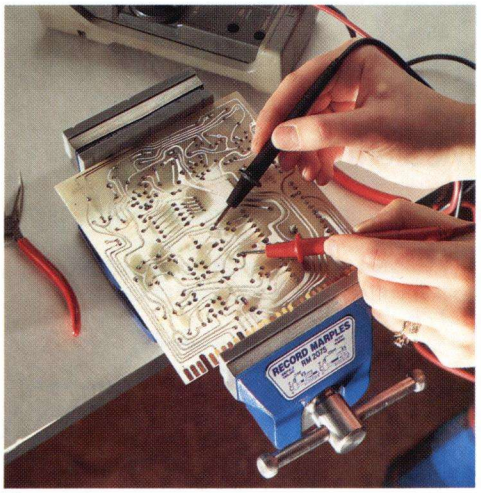












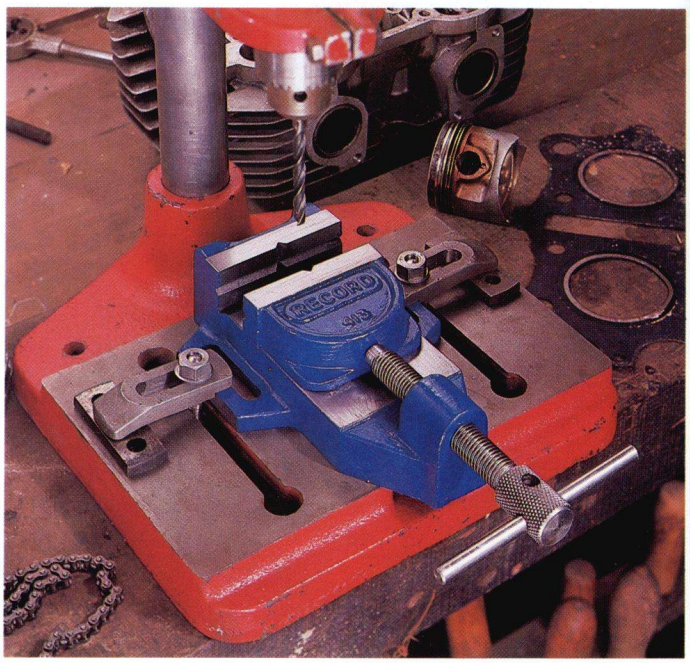
Cat No.	Jaw width in	Jaw width mm	Jaw opening in	Jaw opening mm	Jaw depth in	Jaw depth mm	Pipe jaw capacity o.d. in	Pipe jaw capacity o.d. mm	Approx weight lb	Approx weight kg
			31/2	75						
2075	31/2	90	REVERSED		1.5/8	42	7/8	22	8	3.9
			7	175						

Drill Press Vices

Medium Duty

Quality and precision are the hallmarks of the Record Drill Press range.

Two types, two specifications and six sizes give you a wide choice to suit your purpose and your pocket.

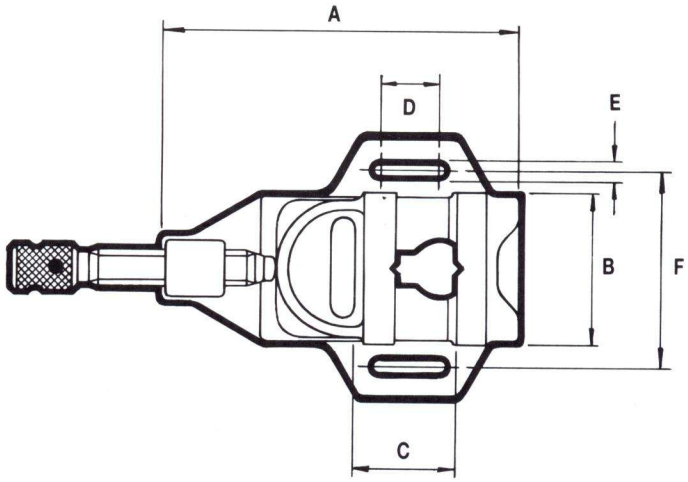


412 Series

The original Record; first choice for the engineering workshop or tool room.

* Unique swivel jaw for any shape of workpiece.
* Cross-drilled handle with tommy bar for extra leverage.
* Precision machined base and end face for stable mounting - horizontal or vertical.
* Precision machined slides.
* Horizontal and vertical V grooved jaws for holding round section work.
* High quality cast body and sliding jaw of guaranteed strength.

No.	412		413		414	
	in	mm	in	mm	in	mm
A	5.3/16	130	7.1/4	184	9	229
B	2.1/4	57	3	75	4	100
C	1.1/2	38	2.1/2	64	3	75
D	.7/8	22	1.1/2	38	1.7/8	47
E	.1/4	6	.7/16	11	9/16	14
F	2.7/8	72	3.7/8	97	5	125
JAW DEPTH	.3/4	19	1	25	1.1/4	32

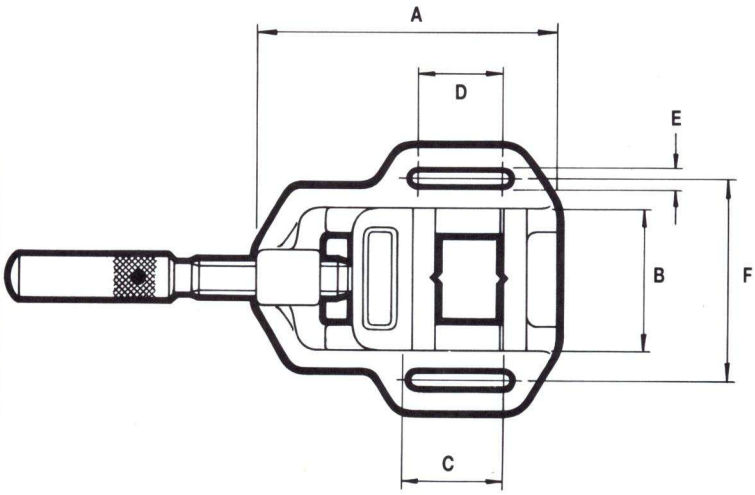


452 Series

Economy and accuracy for the garage or workshop.

* Precision machined base.
* Vertically V grooved jaws.
* Long cross-drilled handle.
* Quality cast body and sliding jaw of guaranteed strength.
* Wide spaced slides for drilling through.

No.	452		453		454	
	in	mm	in	mm	in	mm
A	4.3/4	121	6.5/8	168	8.3/8	213
B	2.1/4	57	3	75	4	100
C	1.1/2	38	2.1/2	64	3	75
D	1.5/16	33	2.1/4	56	2.11/16	68
E	.3/8	10	.7/16	11	.9/16	14
F	3.3/16	81	4.1/4	108	5.9/16	141
JAW DEPTH	.3/4	19	1	25	1.1/4	32



Hobby 100

Medium Duty

A useful general purpose vice ideal for vice stands, portable work-benches or the home workshop.

Also suitable as a first vice for young beginners or the school workshop.

Cat No.	Jaw width		Jaw opening		Jaw depth		Approx weight	
	in	mm	in	mm	in	mm	lb	kg
100	4	100	4.1/2	115	2	50	15.1/2	7

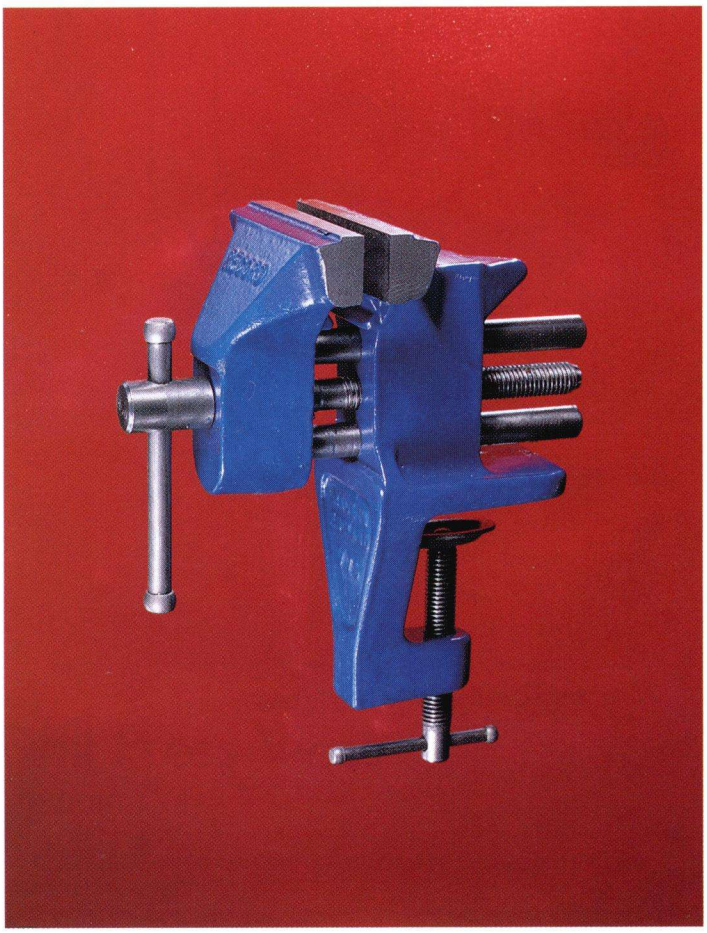


Table Vice V75

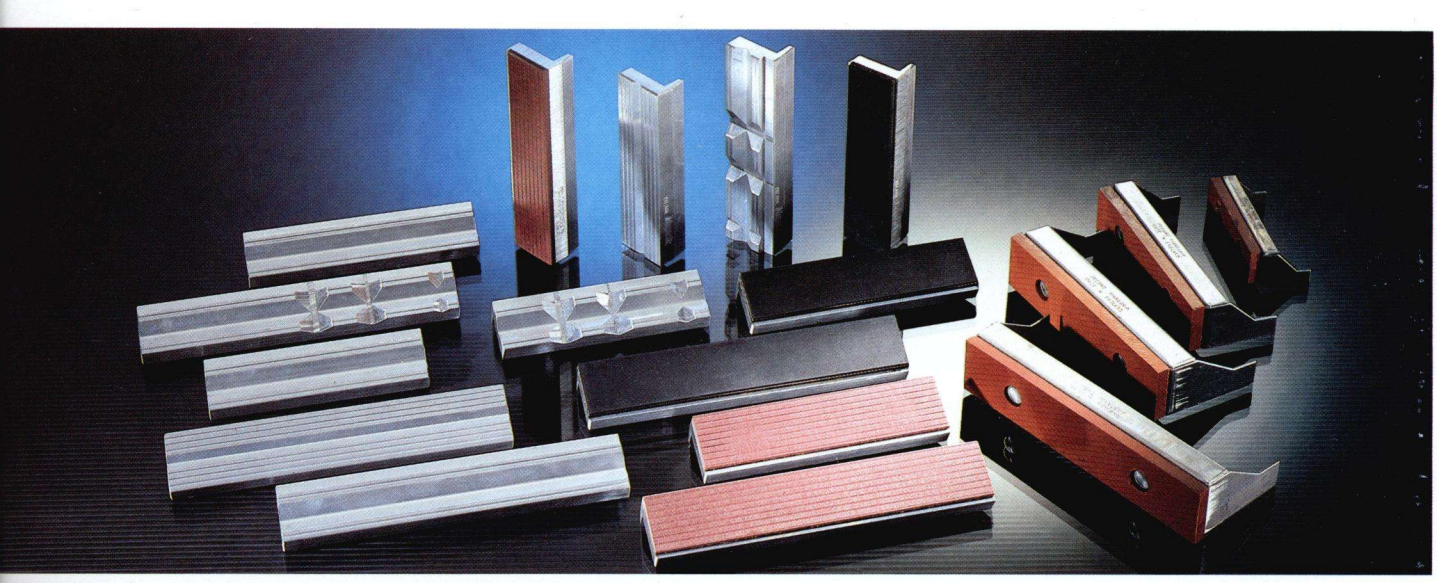
Sturdy and compact, the body and sliding jaw of the V75 are solid grey iron castings with steel guide rods and mainscrew. Featuring integral pipe grips and a 1.5/8"/42mm clamp the V75 can be fitted to any convenient working surface in the home or on site.

Cat No.	Jaw width		Jaw opening		Jaw depth		Clamp capacity		Approx. weight	
	in	mm	in	mm	in	mm	in	mm	lb	kg
V75*	3	75	2	50	1.1/4	32	1.5/8	42	4.1/2	2.1

Swivel Bases

Swivel bases are available for all Mechanics Vices as an optional or standard fitting (see page 4).

Cat No.	To suit vice Nos.
1SB	1
3SB	3
4SB	4
5SB	5
6SB	6 and 8



Replaceable Vice Jaws

Replaceable jaw plates are available for all Mechanics, Fitters, Multi Purpose and Engineers Vices. Hardened, CHC machined, complete with screws or bolts and ready to fit.

Cat No.	To suit vice No.	Jaw width in.	mm
1.D	1	3	75
3.D	3	4	100
4.D	4	4.1/2	115
5.D	5	5	125
6.D	6	6	150
8.D	8	8	205
23.O	23	4.1/4	110
25.O	25	6	150
2090.D	2090	3.1/2	90
36.O	36	6	150
75.E	75	5.1/4	135
84.O	84	4.1/2	115
112.O	112	6	150
114.O	114	8	205

Special Vice Jaws

In addition to our range of 9 clip-on fibre grips (see table below) we now offer a range of slip-on Magnetic Vice Jaws (Soft Options) comprising 16 sizes and 4 types. From this range almost any metalwork vice can be adapted to take a firm protective grip on wood, plastic, glass or soft metals.

TYPE F

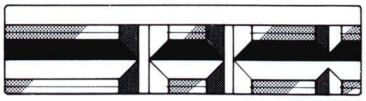
Fibre faced aluminium for use with copper, aluminium, brass etc. Can be used together with a rubber faced jaw for work which has only one level surface.
Sizes: **J4F** (100mm) **J4½F** (115mm) **J5F** (125mm) **J6F** (150mm).

TYPE R

Rubber faced aluminium for use with polished metal surfaces, plastics, glass or material with an irregular shape.
Sizes: **J4R** (100mm) **J4½R** (115mm) **J5R** (125mm) **J6R** (150mm).

TYPE A

Aluminium with horizontal grooves for flat or round section material.
Sizes: **J4A** (100mm) **J4½A** (115mm) **J5A** (125mm) **J6A** (150mm).



TYPE AP

Hardened aluminium with vertical and horizontal V-grooves for round section material.
Sizes: **J4AP** (100mm) **J4½AP** (115mm) **J5AP** (125mm) **J6AP** (150mm).

All jaws are fitted with magnets and fully interchangeable for flexibility.

Cat No.	Size in.	mm
FG2.1/2	2.1/2″	65
FG3	3″	75
FG3.1/2	3.1/2″	90
FG4	4″	100
FG4.1/4	4.1/4″	110
FG4.1/2	4.1/2″	115
FG5	5″	125
FG5.1/4	5.1/4″	135
FG6	6″	150

woodworking vices

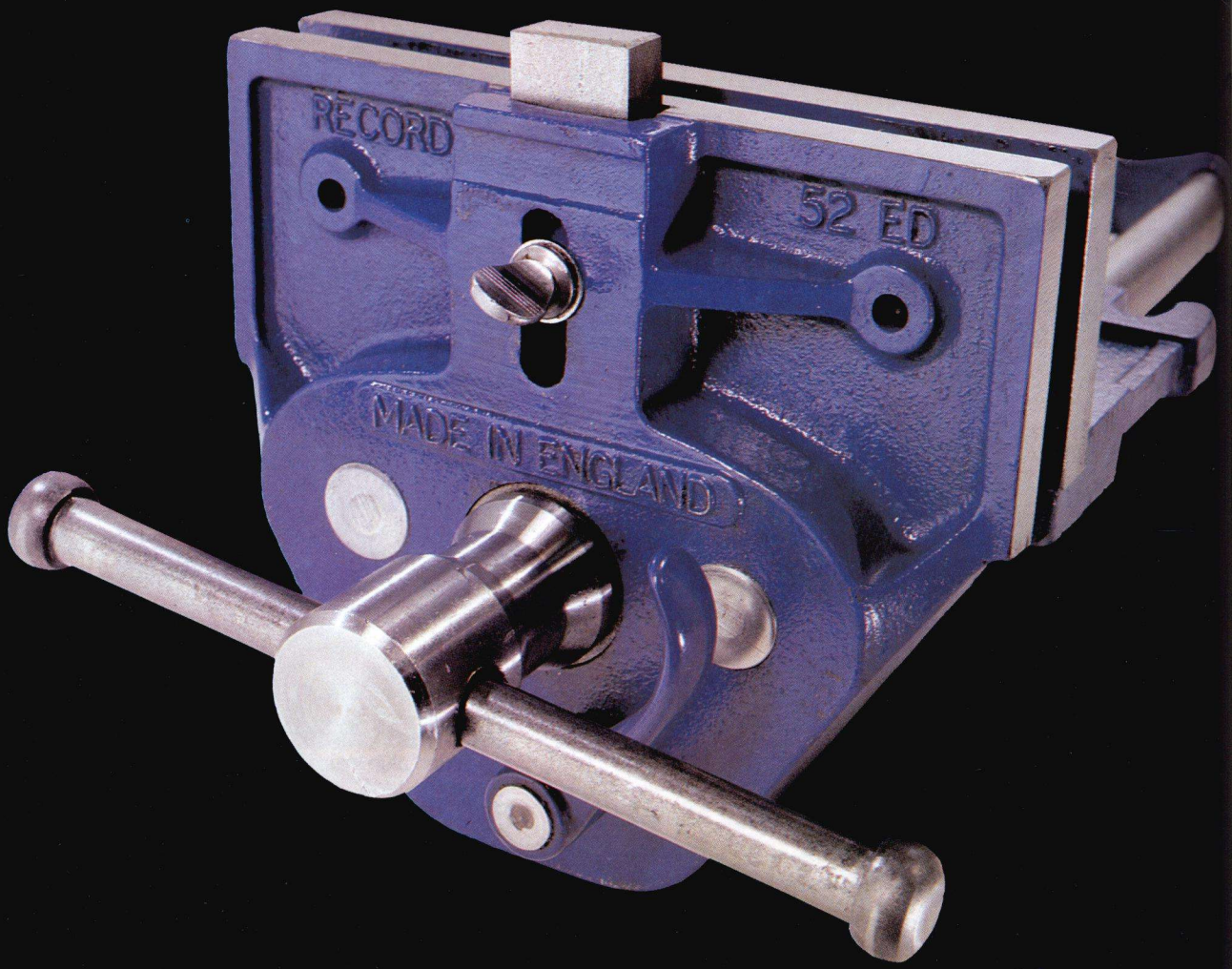
Record woodworking vices display all the attributes of attention to detail and sound engineering found in our metalworking vices. Bodies and front plates are cast from grey iron in our own foundry, and CNC machined for consistent repetitive accuracy. When fully closed, the jaws meet only at the top to provide an even clamping on the whole depth of the work piece, as pressure is applied. Location holes are provided so you can fit your own choice of wooden cheeks to protect the work.

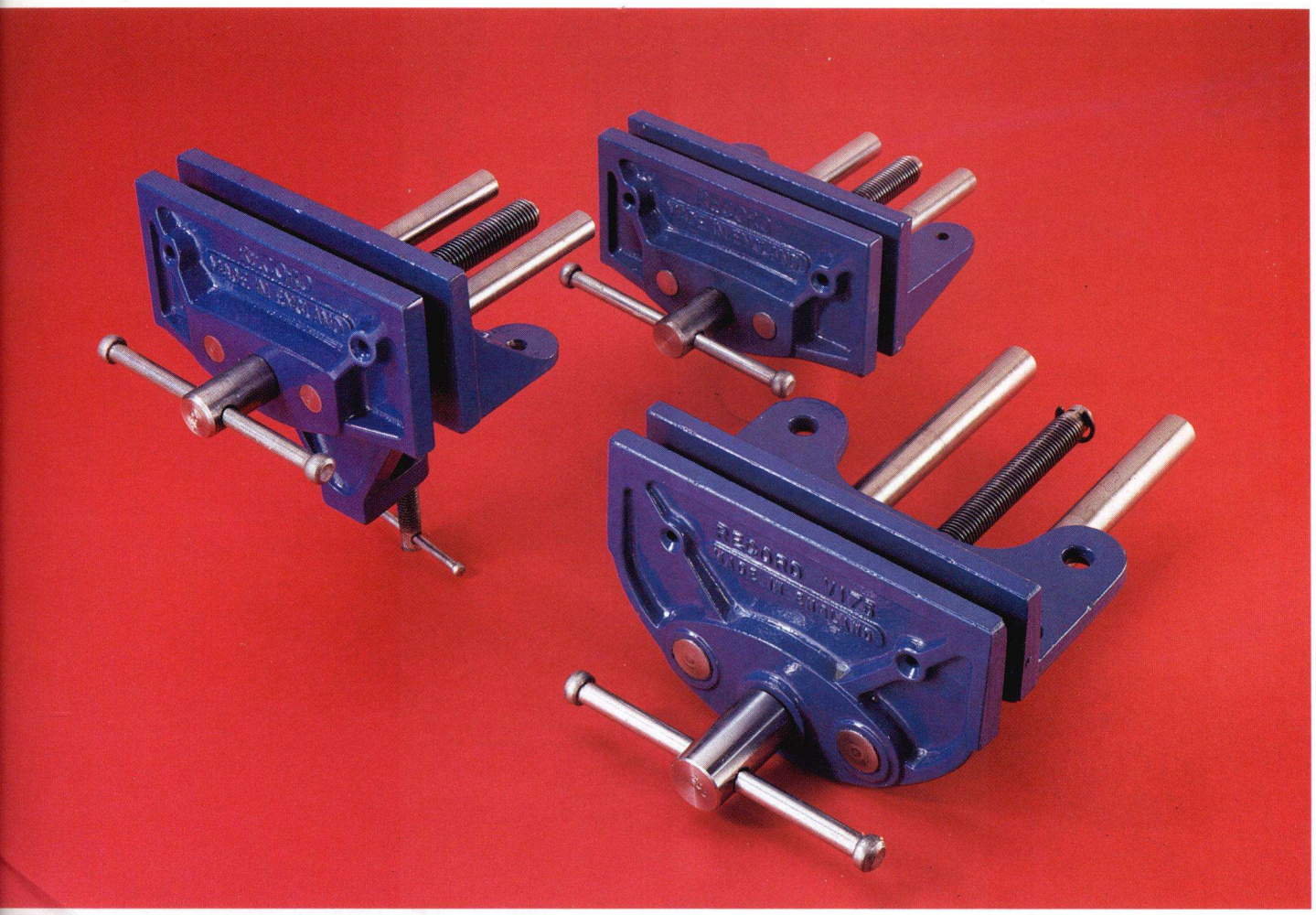
To protect the vice, a steel handle of just the right length and diameter provides a margin of safety since it will bend before the vice can be overstressed.

The steel main screws have a two start acme thread for smooth, responsive adjustment or alternatively a buttress thread and quick release mechanism. This disengages the main screw allowing the jaw to slide freely – saves a lot of time if you're working with different widths of stock.

Steel guide rods are accurately made and fitted reducing wear and providing a smooth parallel adjustment.

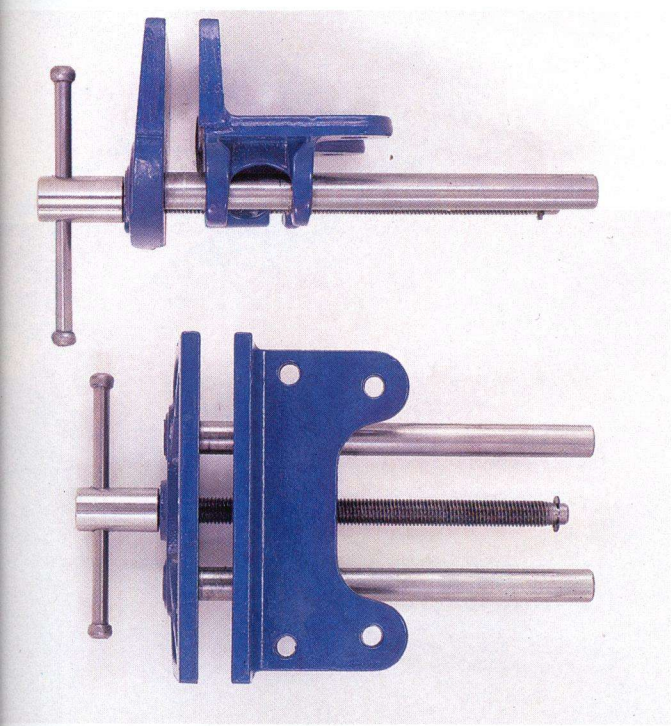
These are just some of the features that have made Record woodworking vices the first choice for generations of woodworkers.



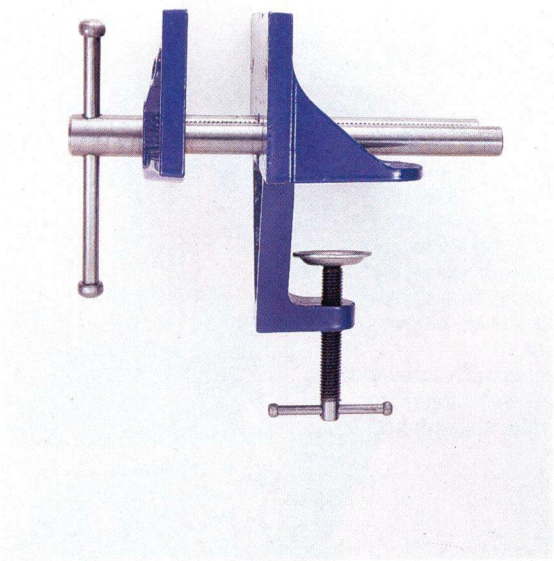


Woodcraft Vices

This is a range of lightweight, low cost vices for the young woodworker, or home handyman, yet robust enough for the professional who needs a compact vice for smaller work. The V149 (6"/150mm) and V175 (7"/165mm) are made to be fitted under the work bench, in the normal way, so that the jaws are flush with the bench top.

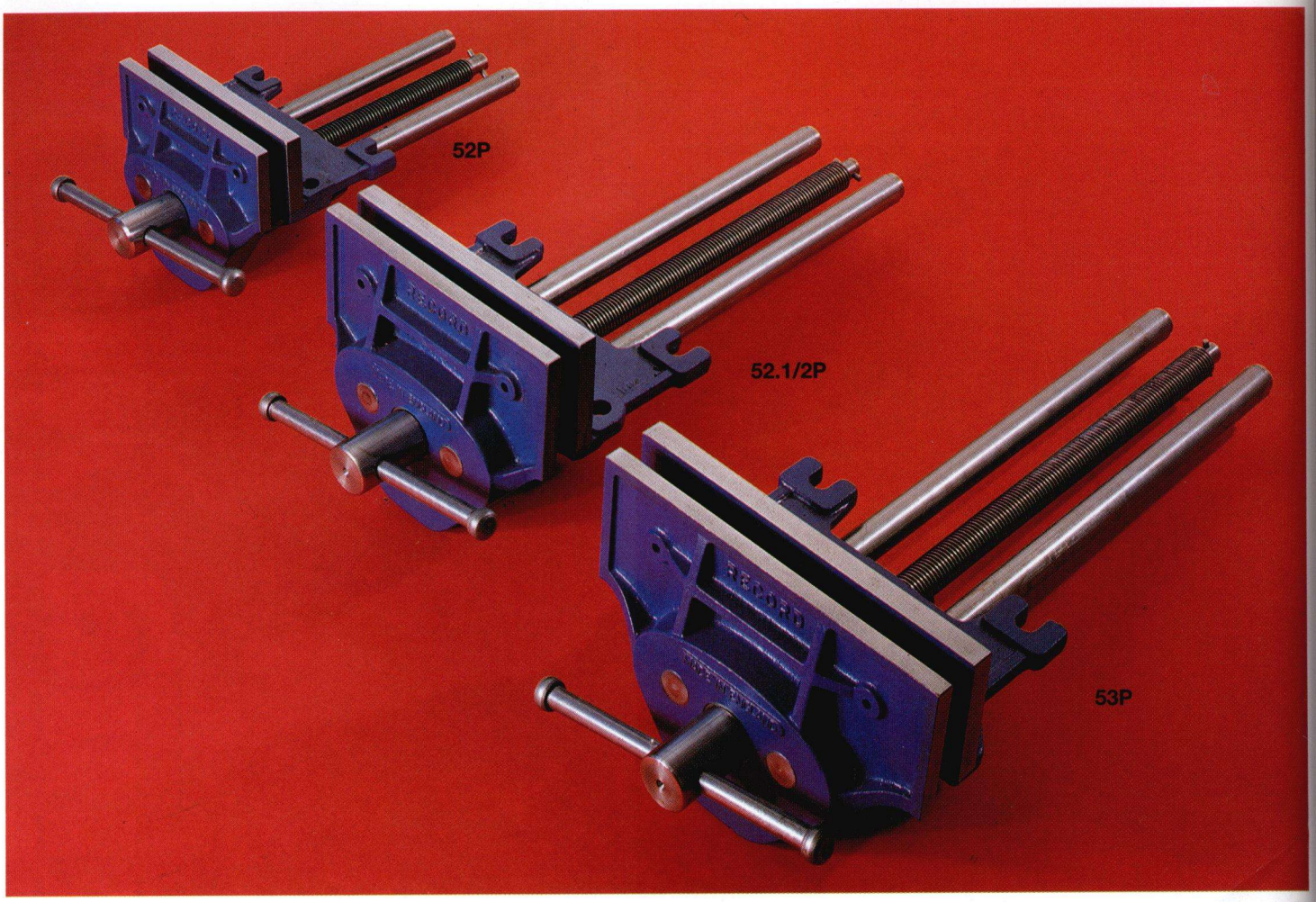


All Woodcraft vices feature a cast grey iron body and front plate, steel handle, main screw, and slide rods, together with a two start acme thread for fast, accurate adjustment.



The V150 is a portable version of the V149 which can be clamped to any convenient surface around the home or outdoors.

Cat. No.	Jaw width		Jaw opening		Approx. weight	
	in	mm	in	mm	lb	kg
V150	6	150	4.1/2	115	6	2.8
V175	7	175	6.1/2	165	11.1/2	5.3
V149	6	150	4.1/2	115	5.1/2	2.5

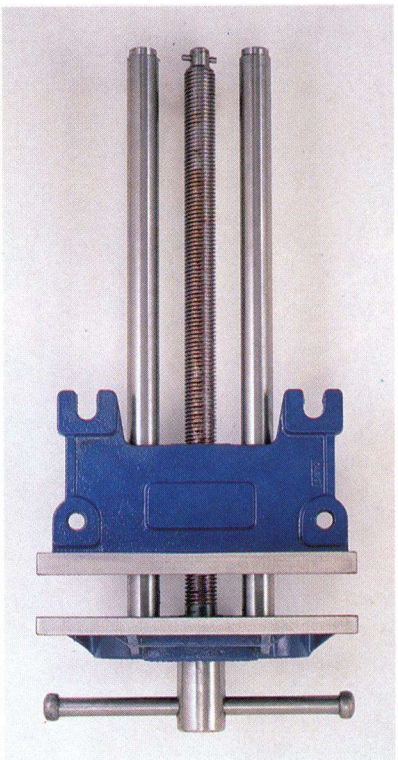


Plain Screw Vices

Made in three capacities, this full size workshop vice is designed for bench mounting.

The cast grey iron body and front plate are precision machined to house two solid steel guide rods giving the vice a smooth, true parallel action free of side or cross movement.

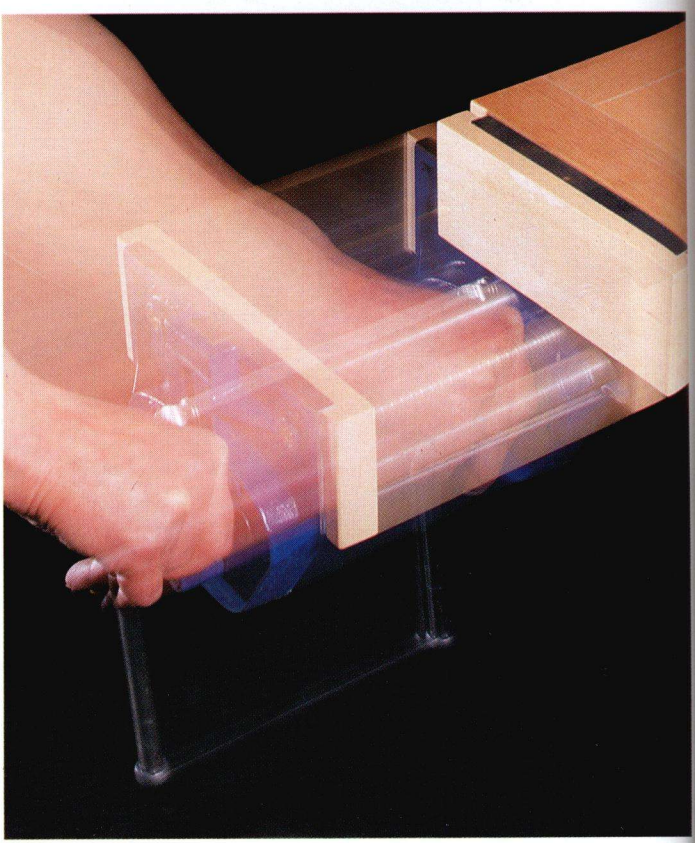
The steel main screw has a two start acme thread for fast accurate adjustment.

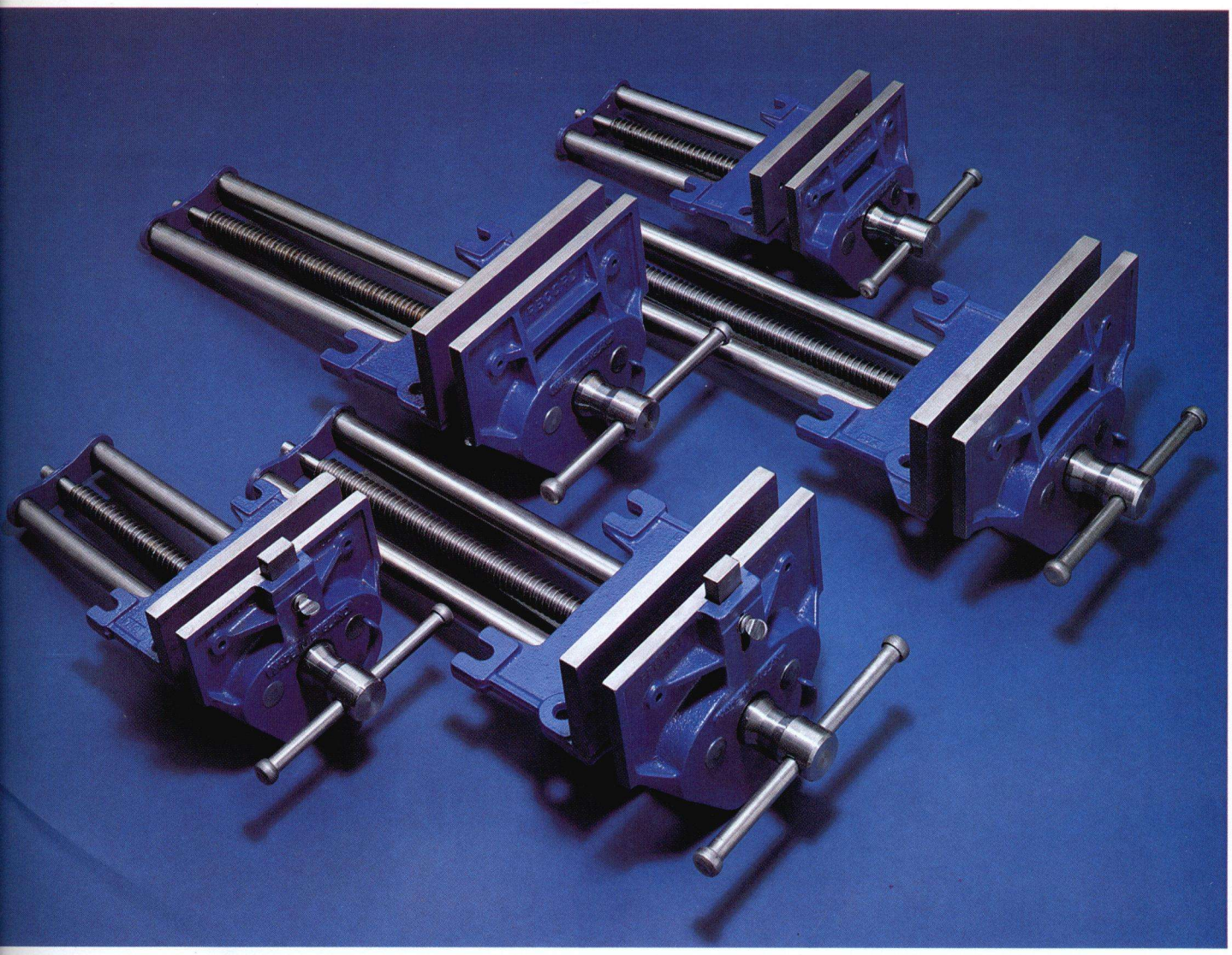


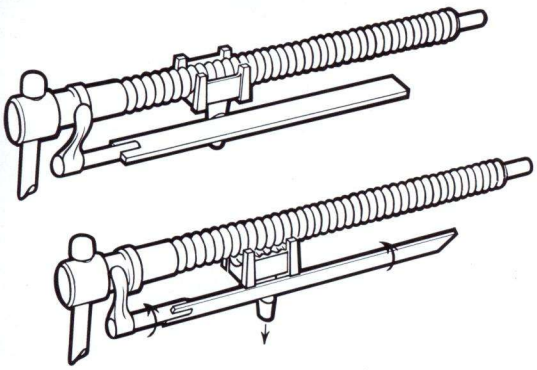
Cat. No.	Jaw Width		Jaw Opening		Approx. Weight	
	in	mm	in	mm	lb	kg
52P	7	175	8	205	20	9·1
52.1/2P	9	230	13	330	36	16·3
53P	10.1/2	265	15	380	38	17·1

Quick Release Vices

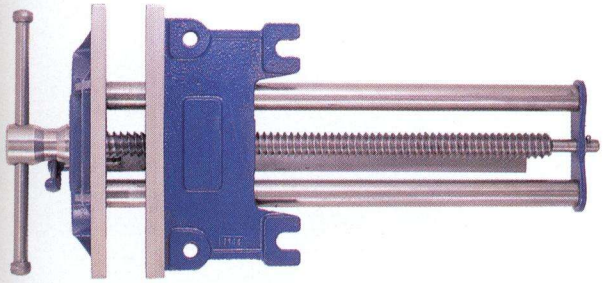
Squeeze the trigger, and a quick release vice can be opened and closed without using the mainscrew. Large and small work pieces can be quickly interchanged, while releasing the trigger returns the mechanism to normal for fine adjustment.





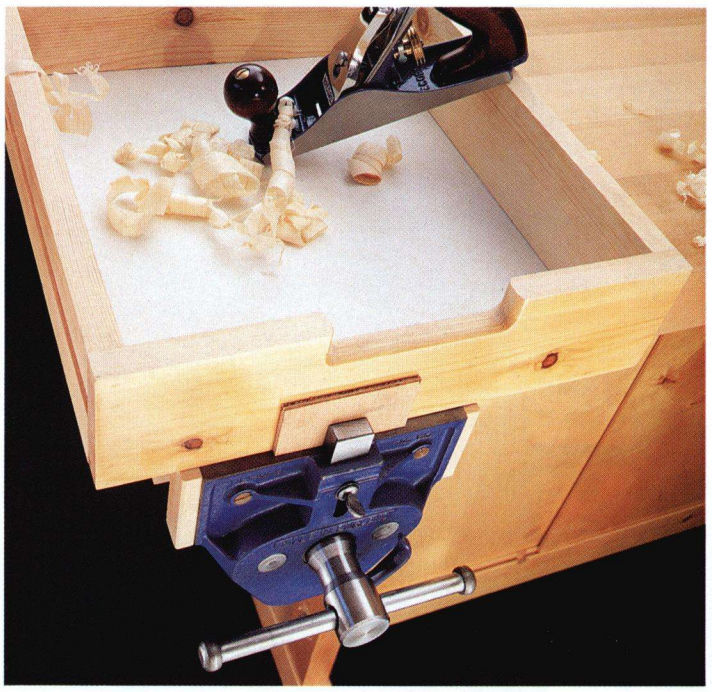


When the trigger is pressed the half-nut disengages allowing the ont plate to slide freely.



Cat. No.	Jaw Width		Jaw Opening		Approx. Weight	
	in	mm	in	mm	lb	kg
52E	7	175	8	205	19	8·6
52.1/2E	9	230	13	330	35	15·9
53E	10.1/2	265	15	380	38	17·1

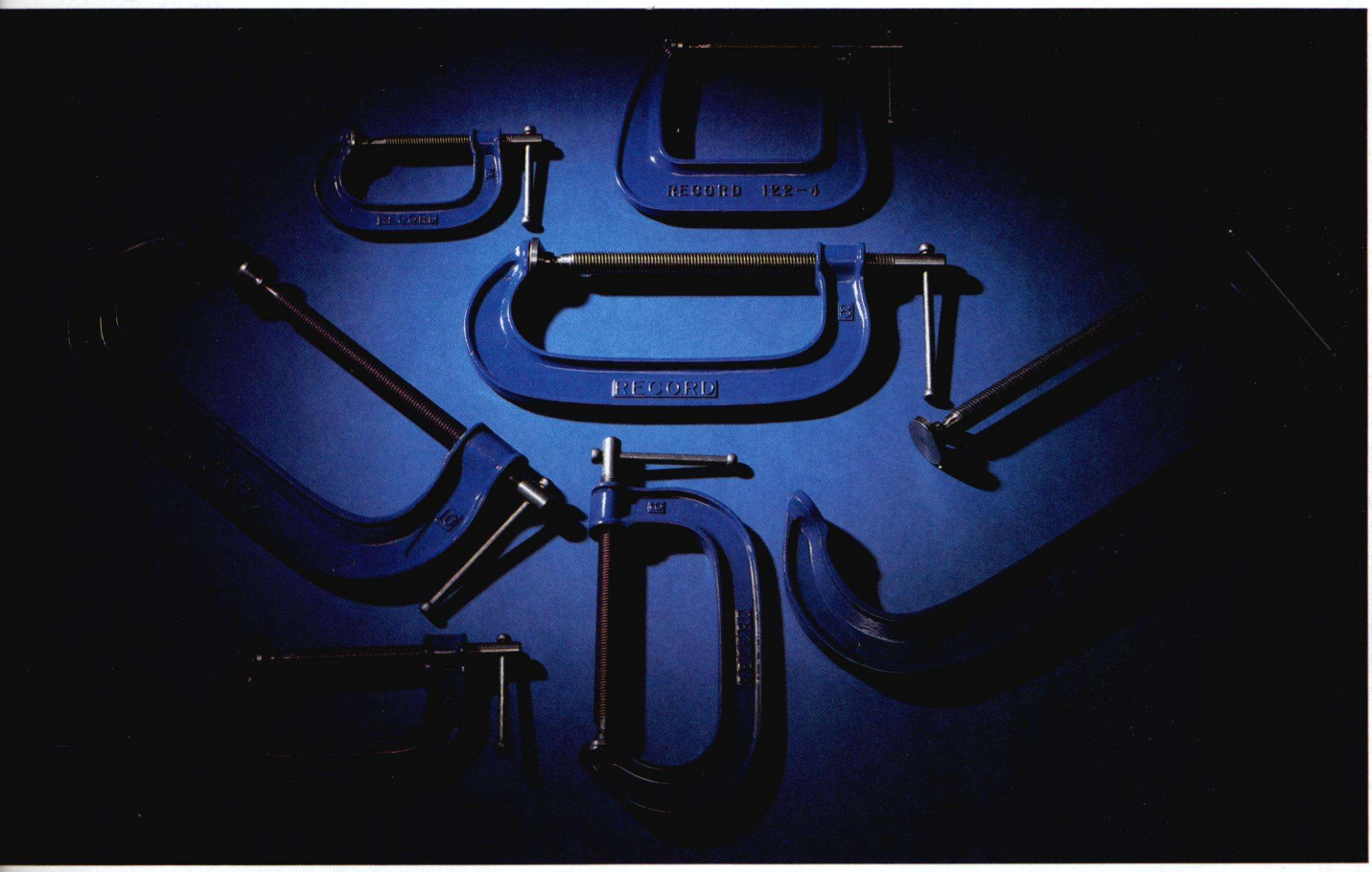
Quick release vices with a front dog. Used in conjunction with a bench stop, the adjustable dog allows oversize work – too large to fit between the jaws – to be securely held on the bench top.



Cat. No.	Jaw Width		Jaw Opening		Approx. Weight	
	in	mm	in	mm	lb	kg
52ED	7	175	8	205	20	9·1
52.1/2ED	9	230	13	330	36	16·3

G-cramps

The simple and single function of a G-Cramp is to exert pressure between two points. It is the function of the manufacturer to ensure that this common task is performed accurately and safely. Record have been doing just that for over fifty years. G-Cramp frames are stressed and shaped to absorb tensions and compressions well within the limits of the material from which they are made. Medium Duty 120's are cast from SG Ductile iron which, in the largest size, will take a load in excess of one ton. Heavy Duty 121's are Drop Forged Steel, hardened and tempered, with a frame proof load, on the largest sizes, of six and a half tons. Because such high pressures are difficult to judge all our Heavy Duty cramps are fitted with 'fused' handles which will bend before the frame can be overstressed.
The steel mainscrews have a two-start, rolled, acme thread: Two start for fast action, rolled for strength - with broad steel swivel shoes which will adopt the correct angle and apply the pressure evenly.

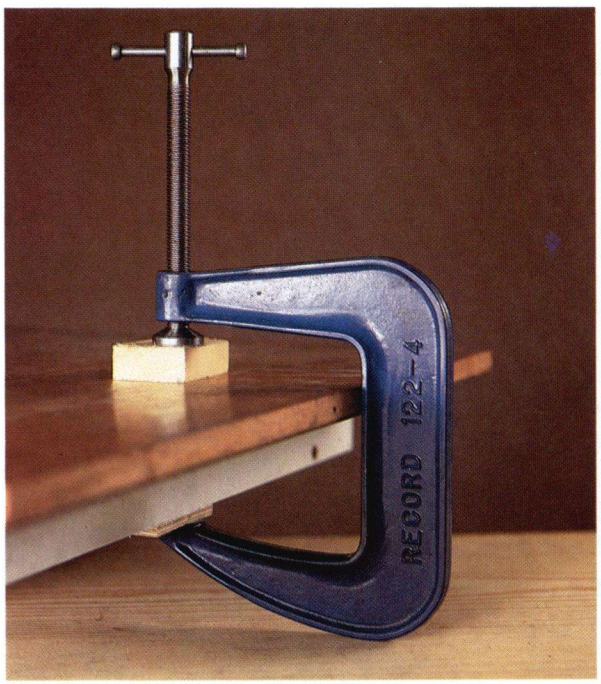


G-Cramps
Medium Duty 120

The most widely used of all Medium Duty G Cramps, suitable for both wood and metalworking applications.

The braced I section frame is cast from S.G. Ductile iron.

Cat No.	Capacity		Frame Proof Load		Approx Weight	
	in	mm	lb	kg	lb	kg
120/3	3	75	1000	455	1.1/4	0.6
120/4	4	100	1200	545	1.1/2	0.7
120/6	6	150	1400	635	2.1/2	1.1
120/8	8	200	1700	775	3.3/4	1.7
120/10	10	250	2200	1000	6	2.7
120/12	12	300	2500	1135	8	3.6

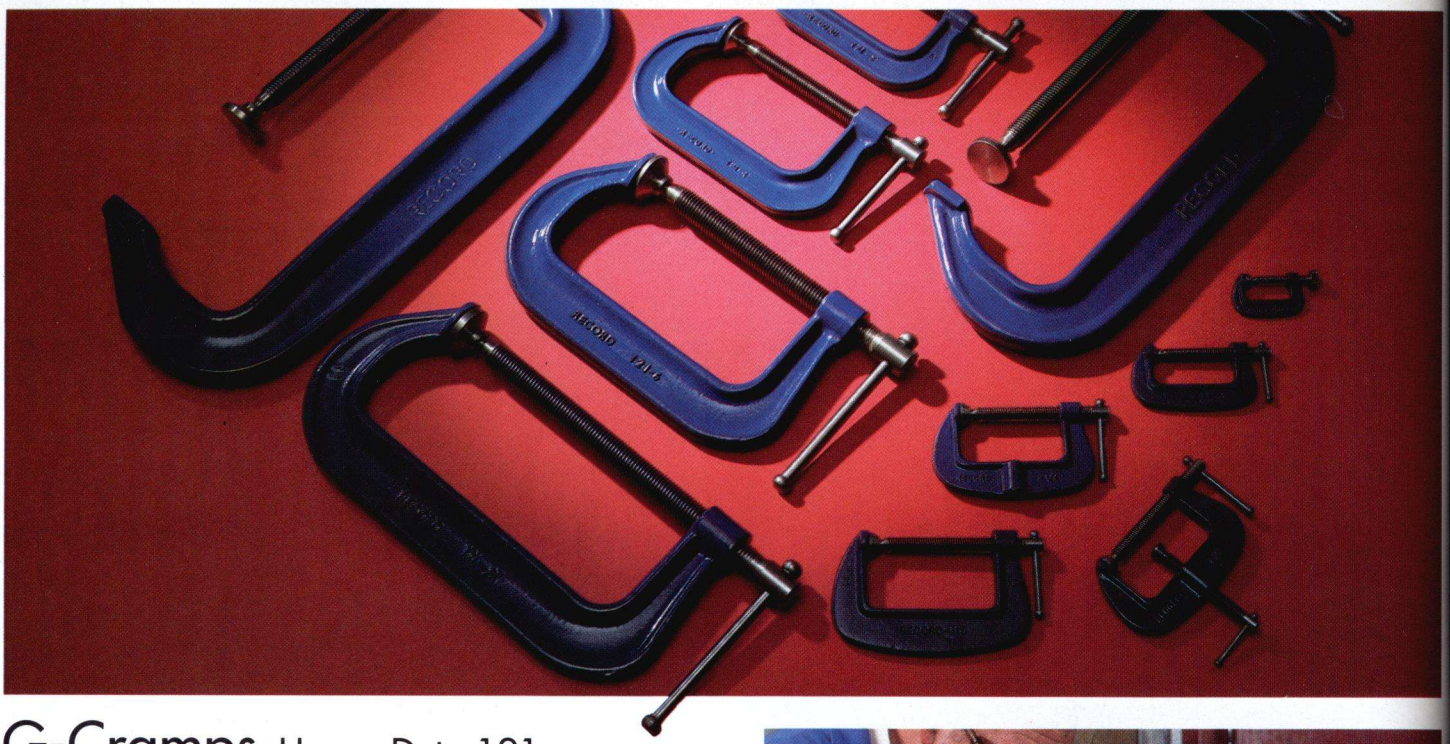


Deep Throat G Cramp
Medium Duty 122

A specialist medium duty cramp with an extra deep 4" (100 mm) throat for cramping well in from the edge of the work.

Cast from SG Ductile Iron.

Cat No.	Capacity		Throat depth (from centre of screw)		Frame Proof load	
	in	mm	in	mm	lb	kg
122	4	100	4.1/2	115	1100	500



G-Cramps Heavy Duty 121

Heavy duty engineers G Cramps made from drop-forged steel with a frame-proof load of up to 15000 lbs (6800 kg).

Recommended particularly for metalworking and fabrication work.

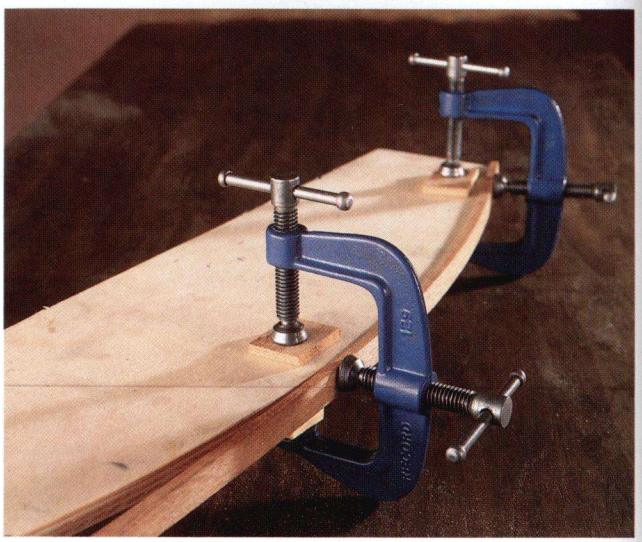
Cat No.	Capacity		Throat Depth (from centre of screw)		Frame Proof load		Approx weight	
	in	mm	in	mm	lb	kg	lb	kg
121/3	3	75	2.1/8	55	6000	2720	1.3/4	0.8
121/4	4	100	2.3/4	70	7000	3170	3	1.4
121/6	6	150	3.5/8	90	9000	4080	4.1/4	1.9
121/8	8	200	3.5/8	90	12500	5670	7	3.2
121/10	10	250	4	100	13700	6240	9	4.1
121/12	12	300	4.1/2	115	15000	6800	12.1/2	5.6

G-Cramps Medium Duty 119

The slim section of this medium duty cramp gives you an advantage when space is limited.

The drop-forged steel frame provides strength and rigidity.

Cat No.	Capacity		Frame Proof Load		Approx weight	
	in	mm	lb	kg	lb	kg
119/1	1	25	-	-	1/8	0.05
119/2	2	50	875	400	1/2	0.2
119/2.1/2	2.1/2	65	900	410	3/4	0.3
119/3	3	75	1100	500	1	0.5
119/4	4	100	1300	590	1.1/2	0.7



Edging Cramp Medium Duty C129

Based on the 119 series this drop-forged steel cramp is designed to secure edging strips on straight or curved surfaces.

Cat No.	Capacity		Frame Proof Load		Approx weight	
	in	mm	lb	kg	lb	kg
C129	2.3/8	61	1.1/4	32	450	205

bar cramps

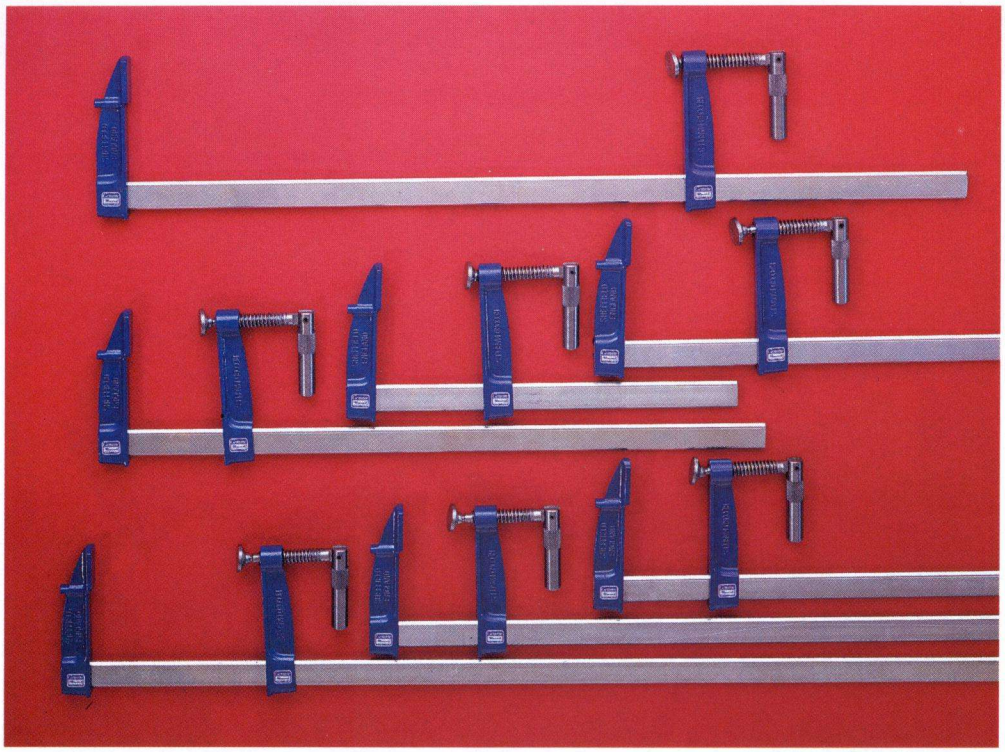
Record bar cramps have been used by generations of craftsmen who have learned to appreciate their strength and accuracy.

The bars are made from bright drawn steel which is rolled dead straight.

Heads and slides are cast from S.G. ductile iron for strength under heavy tension, and special care is taken to ensure that the fixed head is fitted square to the bar with a 1.1/2-2° taper for a true parallel cramping action.

The main screws and handles are made from high grade steel and the acme threads, rather than being cut, are rolled into the steel for extra strength and wear resistance.

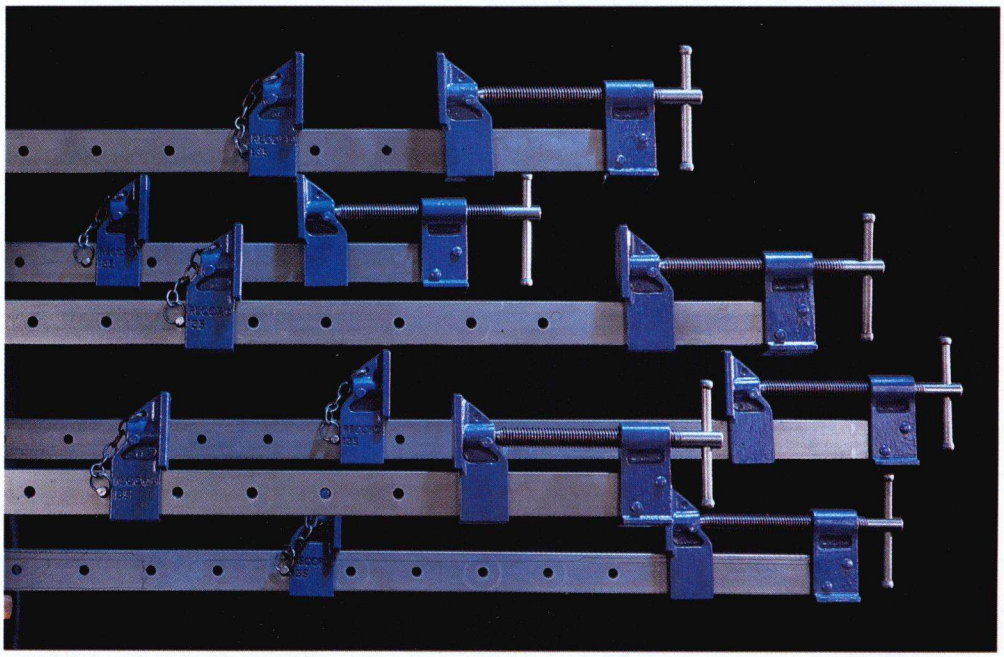
When you are working under pressure, Record cramps will always take the strain.



Speedcramps 132

These medium duty cramps have a bright zinc plated bar, serrated top and bottom. As cramping pressure is applied, these serrations lock and secure the sliding head. The hinged handle gives extra leverage when you really want to put the pressure on, while the swivel shoe will sit firmly on off-square or uneven surfaces.

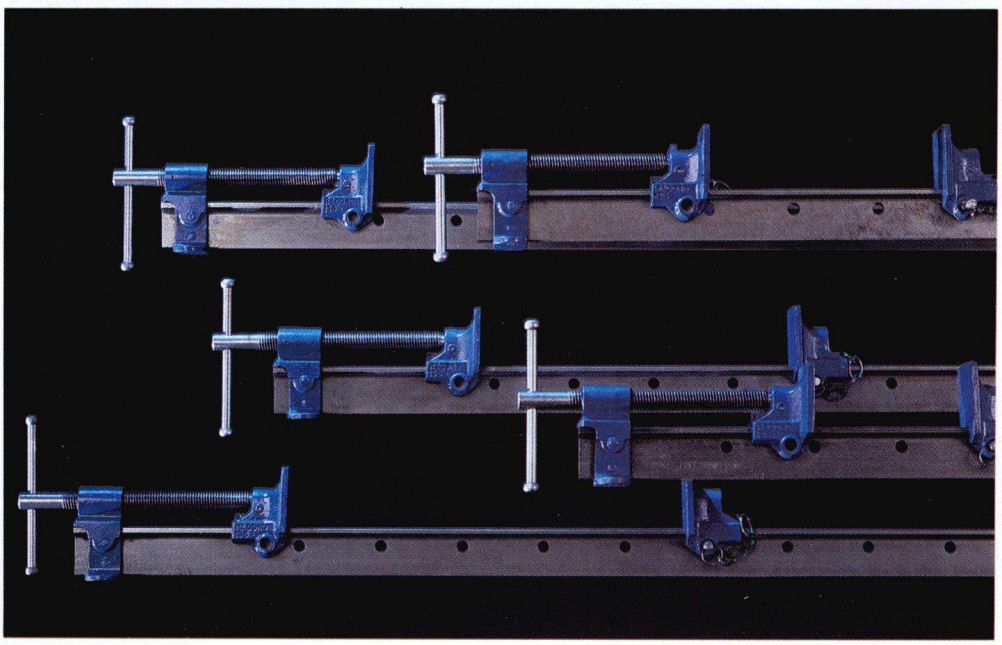
Fast and easy to use, speedcramps have the additional advantage of a 4.3/4"-120mm throat depth.



Sash Cramps 135

Heavy duty cramps with a bar section of 1.1/4" x 1/4"/32mm x 6mm. The tail slide is secured by a solid steel pin passing through one of the locating holes spaced along the bar.

A two start acme thread puts the pressure on quickly and smoothly. The slides and heads are flat bottomed so that the cramp will stand without support.

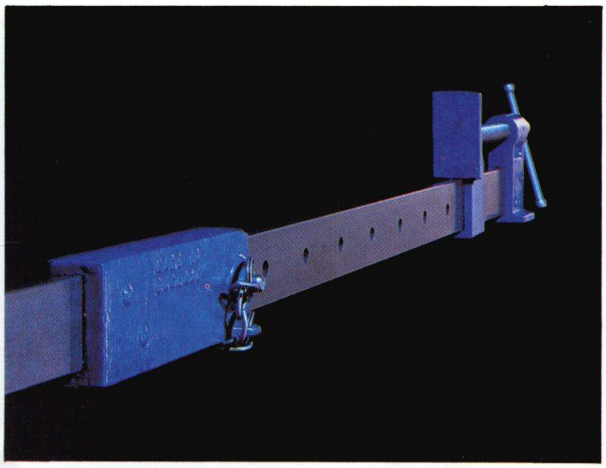


T-Bar Cramps 136

Similar to the 135 the 'T' section bar of the 136 gives extra resilience under cramping pressures which can be as high as 1.9 tons. The fixed head is furnished with drilled feet for bench mounting.

Cat. No.	Capacity	
	in	mm
32/30	12	300
32/40	16	400
32/50	20	500
32/60	24	600
32/80	32	800
32/100	40	1000
32/150	60	1500

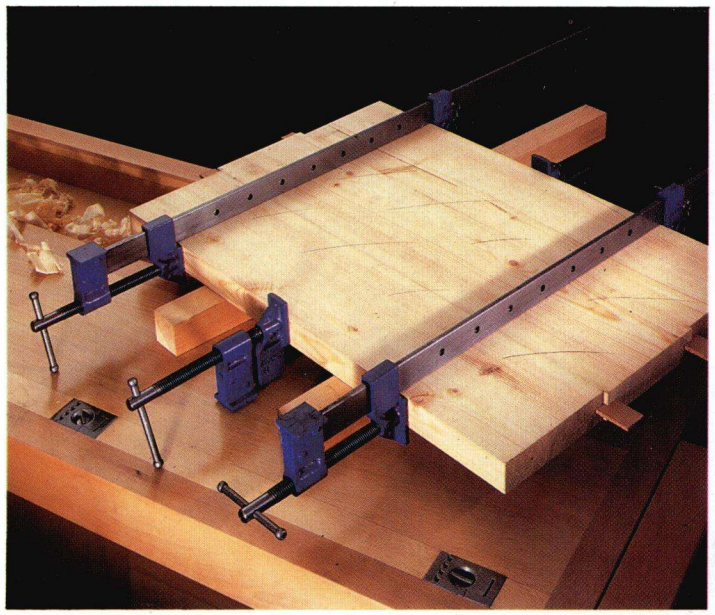
The generous 4.3/4"/120mm throat depth of a Speedcramp helps to put the pressure on awkward shapes.

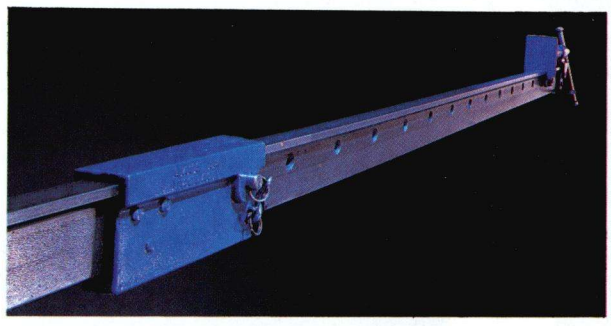


The lengthening bar L135/4 will increase the capacity of any 135 36"/915mm.

sh (1.1/4 x 1/4"/32 x 6mm)

Cat. No.	Capacity		Bar length	
	in	mm	in	mm
135/1	18	460	24	610
135/2	24	610	30	760
135/3	30	760	36	915
135/4	36	915	42	1070
135/5	42	1070	48	1220
135/6	48	1220	54	1370





The lengthening bar L136/6 will increase the capacity of any 136 by 48"/1220mm up to a maximum reach of 126"/3200mm.

T-bar (1.3/4 x 3/4"/45 x 19mm)

Cat. No.	Capacity		Bar length	
	in	mm	in	mm
136/5	42	1070	48	1220
136/6	48	1220	54	1370
136/7	54	1370	60	1525
136/9	66	1680	72	1830
136/11	78	1980	84	2135

planes

The woodworking plane is one of the most essential tools in the workshop because it determines the final fit and finish of the timber.

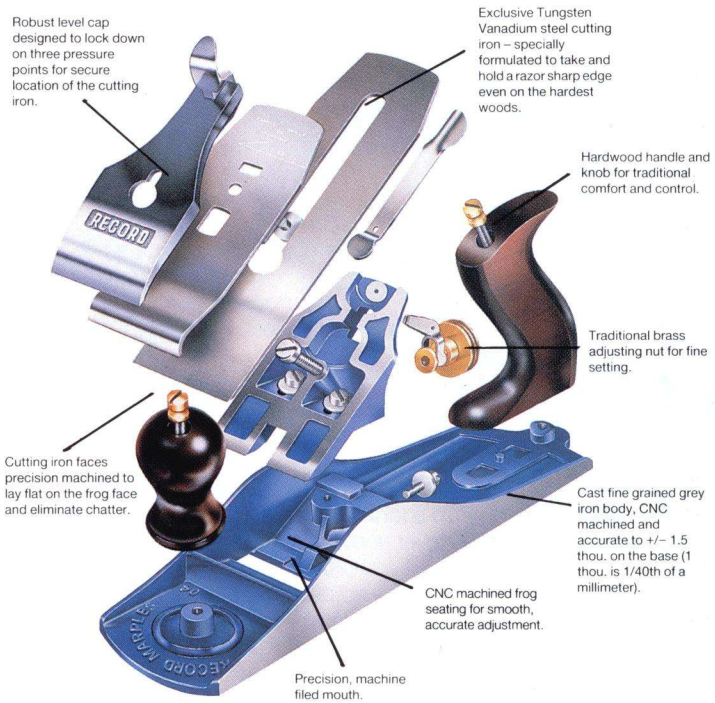
The fit and finish of the plane must therefore be extremely accurate. Record bring decades of experience to this problem and with a combination of traditional, well proven designs and advanced production techniques have produced probably the finest range of woodworking planes on the market. The traditional element is found in fine grained grey iron body castings for strength and stability, hard-wood handles for comfort and control and because, in common with brass fittings and chromed lever caps – nothing else looks or feels quite right.

Advanced production techniques include for example the use of CNC (computer numeric control) machining centres which impart a precise and consistent finish to bases and sides, frog seatings and cutting irons. Automatic checking machines which test every single bench plane iron for hardness and squareness, and an ultrasonic cleaning plant which removes all traces of dirt and particles so that each and every Record plane looks as well as it works, and works as well as it looks.

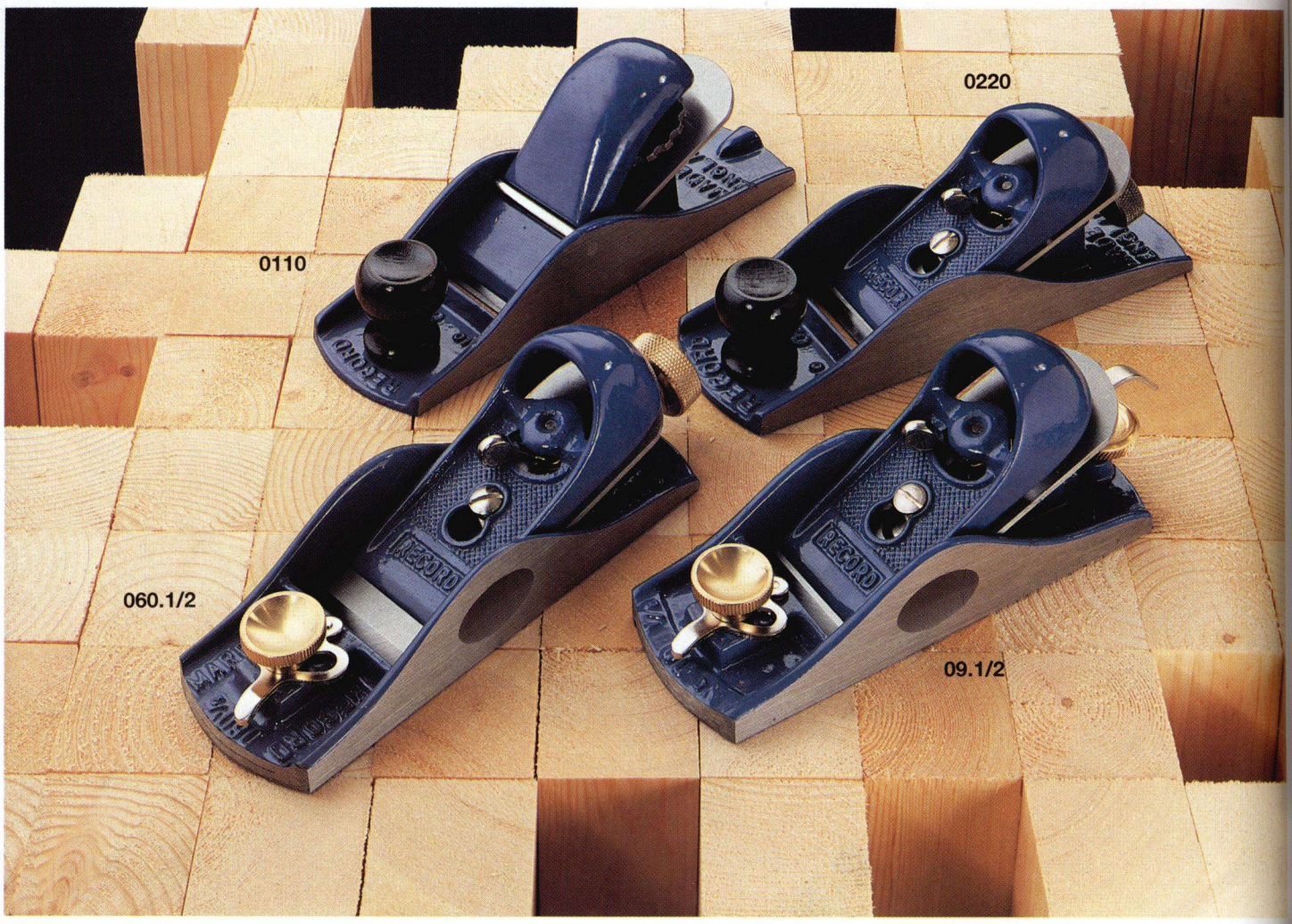
Bench Planes

The seven Record bench planes are divided into three types:–
Smoothing Planes (03–04–04.1/2) are, as the name implies, for moothing and final finishing.
Jack Planes (05–05.1/2) being four and five inches longer than moothing planes, are used for the initial preparation of rough mber. The long base bridges the undulations which a shorter plane ould tend to follow.
Jointer Planes (06–07) are extended Jack planes serving the ame purpose where very long rough timber has to be prepared.

Corrugated base bench planes are available in all whole number zes for use on resinous woods. To order simply add suffix C, e.g. o. 04C.


Robust level cap designed to lock down on three pressure points for secure location of the cutting iron.
Exclusive Tungsten Vanadium steel cutting iron – specially formulated to take and hold a razor sharp edge even on the hardest woods.
Hardwood handle and knob for traditional comfort and control.
Traditional brass adjusting nut for fine setting.
Cutting iron faces precision machined to lay flat on the frog face and eliminate chatter.
Cast fine grained grey iron body, CNC machined and accurate to +/– 1.5 thou. on the base (1 thou. is 1/40th of a millimeter).
CNC machined frog seating for smooth, accurate adjustment.
Precision, machine filed mouth.
RECORD

Cat No.	Type	Length		Cutter width	
		in	mm	in	mm
03	Smooth	9.1/2	240	1.3/4	45
04	Smooth	9.3/4	245	2	50
04.1/2	Smooth	10.1/4	260	2.3/8	60
05	Jack	14	355	2	50
05.1/2	Jack	15	380	2.3/8	60
06	Jointer	18	455	2.3/8	60
07	Jointer	22	560	2.3/8	60



Block Planes

The block plane is so called because it was invented to cut the end grain of sycamore or maple used to make butcher's chopping blocks.

It didn't take long for other craftsmen and cabinet makers to appreciate the virtues of the low angle cutter and the compact precision of this new tool. The smooth slicing action gives a fine finish to the end grain of open box dovetails and through tenons.

On straight grain, the block plane will produce a delicate chamfer or satin smooth finish by removing the thinnest of shavings.

Four Record block planes are available;

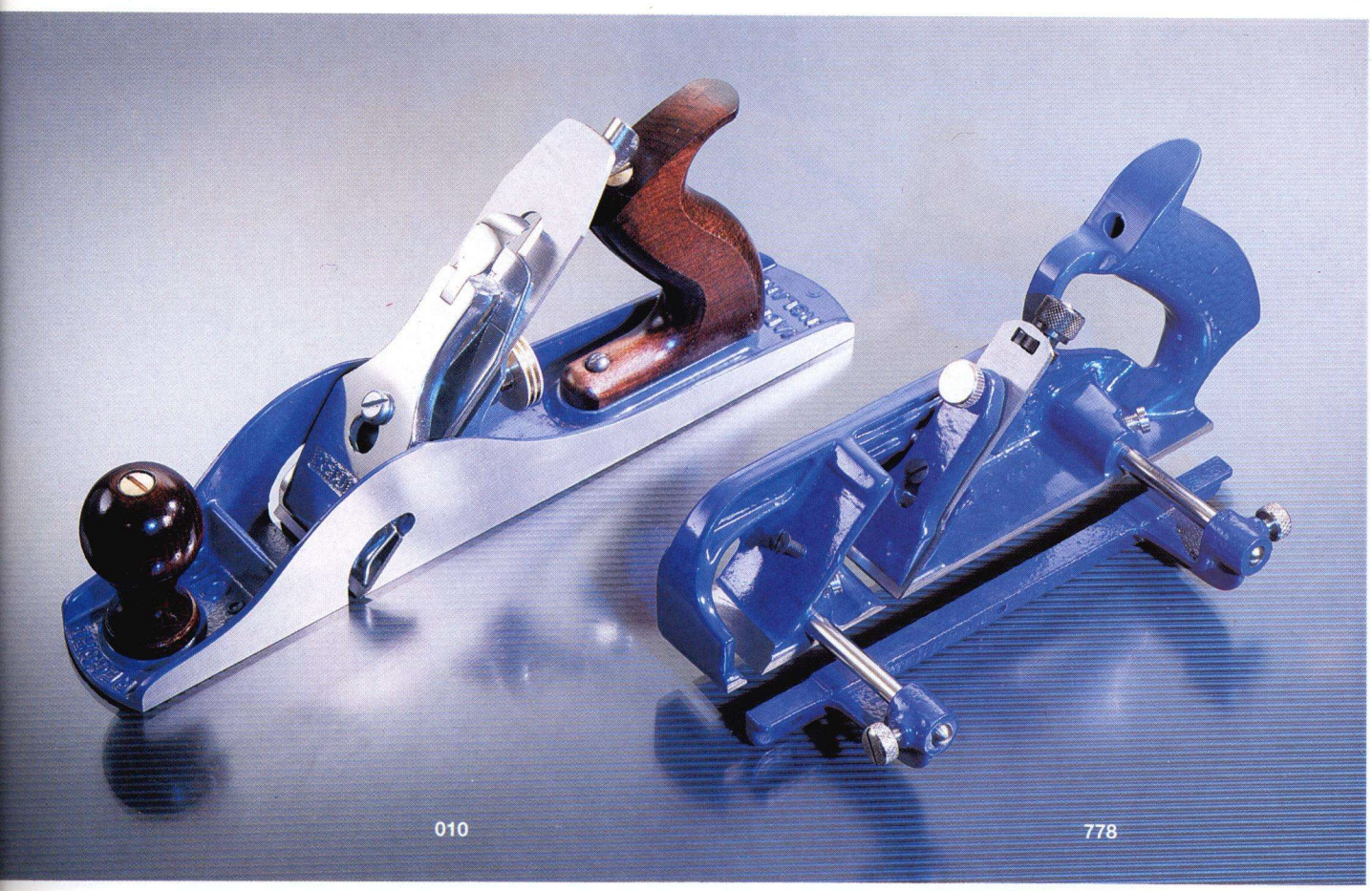
The 0110 is simple and economical, the cutter being secured by a knurled wheel and screw.

The 0220 is a little more sophisticated having a screw adjusted cutter secured by a plated lever and cam.

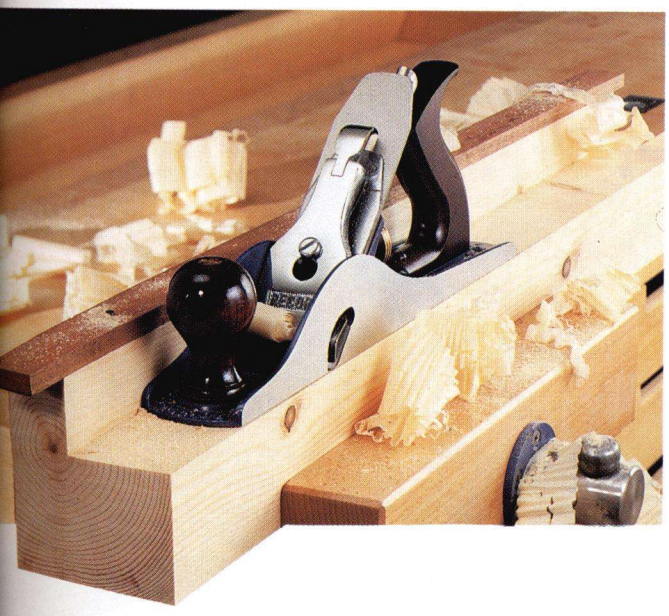
The 060.1/2 also has a screw adjusted cutter but, being pitched at 12.1/2 degrees is ideal for plastic laminate. This plane is also furnished with an adjustable mouth – wide for coarse work, narrow for fine shavings from an awkward grain.

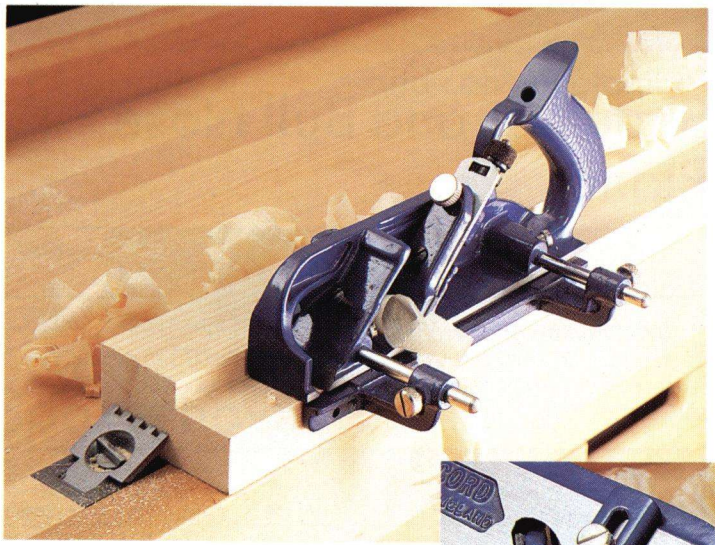
The 09.1/2 completes the range being fitted with an adjustable mouth and screw adjusted cutter which has a lever adjustment for lateral alignment.

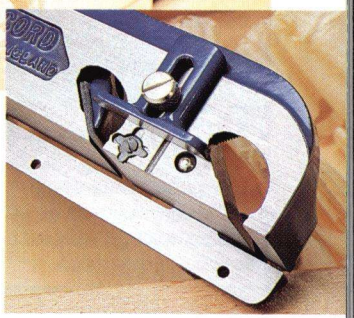
Cat. No.	Length		Cutter width	
	in	mm	in	mm
060.1/2	6	150	1.5/8	42
09.1/2	6	150	1.5/8	42
0110	7	180	1.5/8	42
0220	7	180	1.5/8	42



Rebate Planes







010 Bench Rebate Plane. Sometimes referred to as a jack rebate because of its similarity to a jack plane, the 010 will cut rebates up to 1/8"-54mm wide and of any desired depth.

Openings in both sides of the body allow the cutting edge of the special blade to span the full width of the base and sit flush with the sides. This also means that the plane can be used left or right handed to suit the run of the grain.

To compensate for its unique shape, the 010 body is cast from S.G. ductile iron and guaranteed unbreakable.

778 Rebate Plane. Designed to cut rebates up to 1.1/2"/38mm wide, the 778 is guided by an adjustable fence mounted on two guide rods for exact alignment. These rods can be pushed through so that the fence can be used on either side.

The cutter is normally fitted in the central position, where depth of cut is controlled by a fine screw adjustment, alternatively a forward location can be used for bull nose work. The 778 comes complete with a spur for cross grain cutting and an accurate depth stop.

Cat. No.	Length		Cutter width	
	in	mm	in	mm
010	13	330	2.1/8	54

Cat. No.	Length		Cutter width	
	in	mm	in	mm
778	8.1/2	215	1.1/2	38

Shoulder and Bull Nose Planes

All the planes in this section are CNC machined on the base and both sides to a tolerance of +/– 1.5 thou.

073 Shoulder Plane. A micrometer fine cutter adjustment, 18 degree frog, and fully adjustable mouth equip the 073 to produce a flawless finish on tenons, rebates and all fine cabinet work, particularly across the grain.

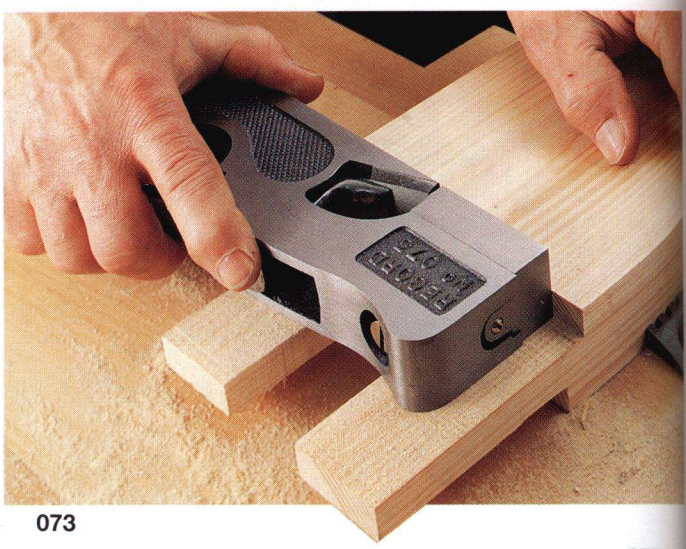
Cat. No.	Length		Cutter width	
	in	mm	in	mm
073	8.1/8	206	1.1/4	32

077 Bull Nose Shoulder Plane. Designed to leave an exacting finish in tight corners such as stopped chamfers and stopped rebates. Sandwiched between the removable nose and the body, two 1/32"-0.8mm shims allow three mouth width settings to be selected, while removing the nose completely, converts the 077 into a chisel plane.

Cat. No.	Length		Cutter width	
	in	mm	in	mm
077	4	102	1.1/8	29

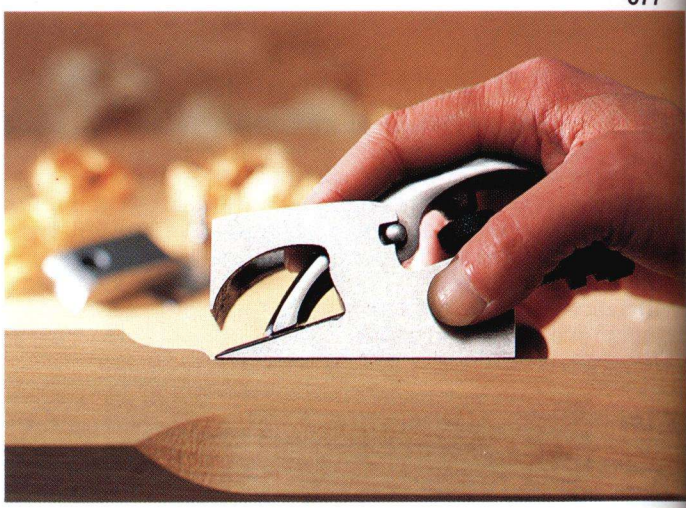
311 Three-in-one Plane. The 311 can be used as a Shoulder Rebate, Bull Nose or Chisel Plane. All three sections are separated from one precision machined casting to ensure a perfect component match. The sections are fastened together by a single screw and aligned by locating pins, for fast and simple conversion.

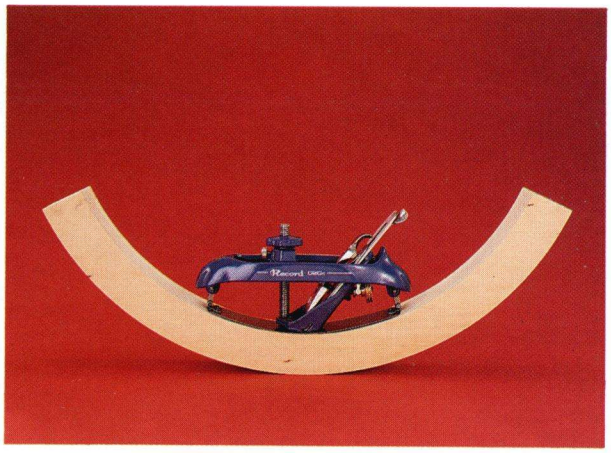
Cat. No.	Length		Cutter width	
	in	mm	in	mm
311	6	152	1.1/8	29



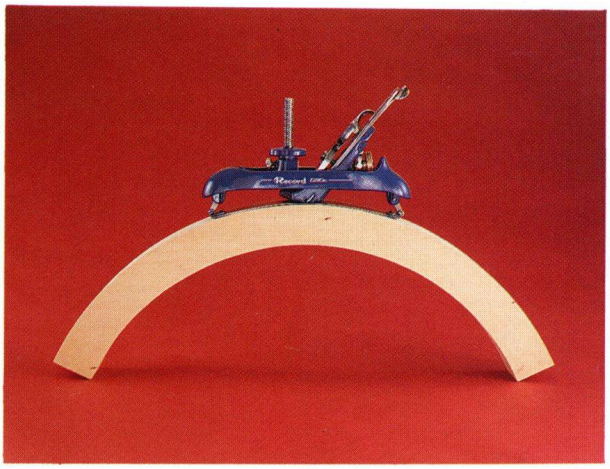
073

077





For concave



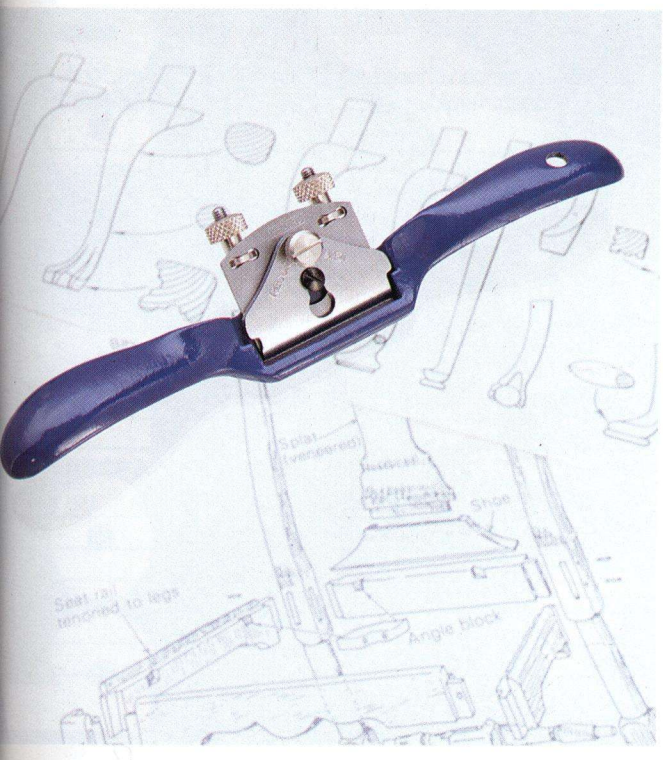
and convex planing

ircular Plane 020C

Once the indispensable tool of the wheelright, the circular or mpass plane is still the most practical way of giving a smooth, true sh to large curved surfaces on window and door frames, in furniture king or boat building.

The one piece sole is made from spring steel and can be easily usted to any shape between maximum convex or concave setting. The body is a one piece grey iron casting while adjustment and ter setting are identical to a normal bench plane.

Cat No.	Length		Cutter width	
	in	mm	in	mm
020C	10	250	1.3/4	45



Spokeshaves

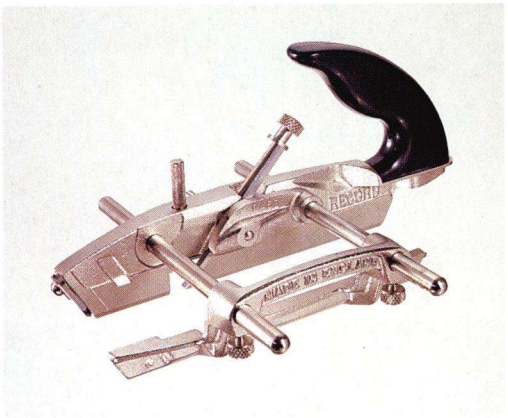
Also from the wheelrights shop, the spokeshave is used for chamfering and shaping – flat faced (A151) for convex surfaces and round faced (A151R) for concave surfaces.

The body is cast from malleable iron, guaranteed unbreakable, and the tungsten vanadium cutter with lateral and vertical adjustment is secured by a lever cap and two retaining screws to eliminate chatter.

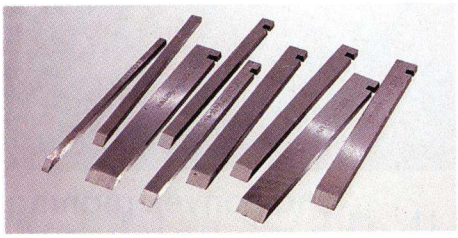
Cat No.	Length		Cutter width	
	in	mm	in	mm
A151	10	250	2.1/8	54
A151R	10	250	2.1/8	54

Plough/Combination Plane 045C

Combination planes usually come with a complete set of cutters. You pay for all of them, whether you need them or not.

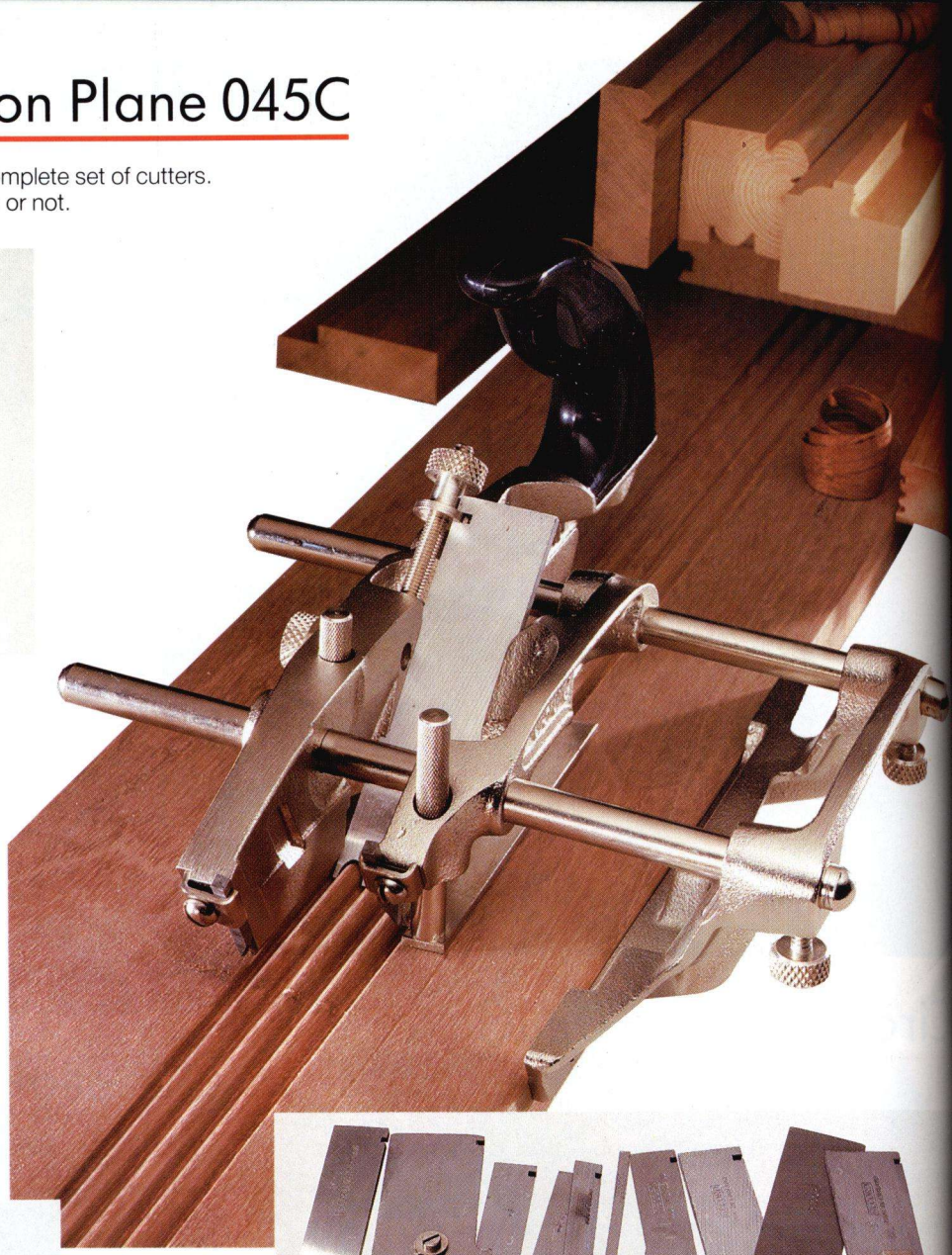


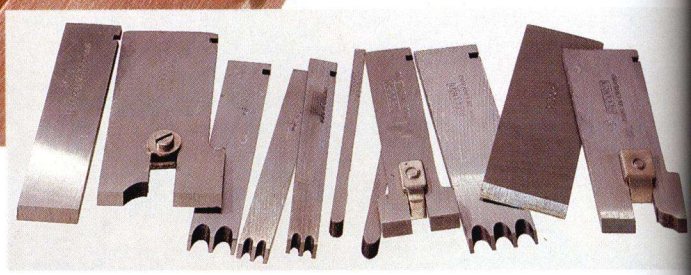
The 045C is supplied with just one, 4mm cutter, □ leaving you free to select what you need from a range of cutter sets, individual cutters and a conversion kit.



For example, set CS045A contains 9 cutters for grooving and rebating. ■

Set CS045B has 8 cutters for rebates, grooves, fillisters and tongues. ■

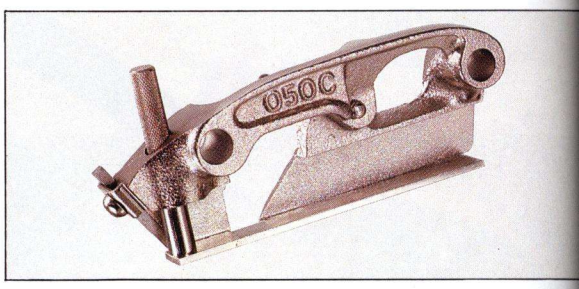




In addition you can choose from 12 individual cutters, for fluting, reeding and sash moulding. ■

The conversion kit (K050C) is used for cross grain grooving, beading, sash moulding, housing, reeding and rebates over 7/8″/22.2mm wide, but for grooving, tonguing, fluting and rebates less than 7/8″ all you need are the cutters.

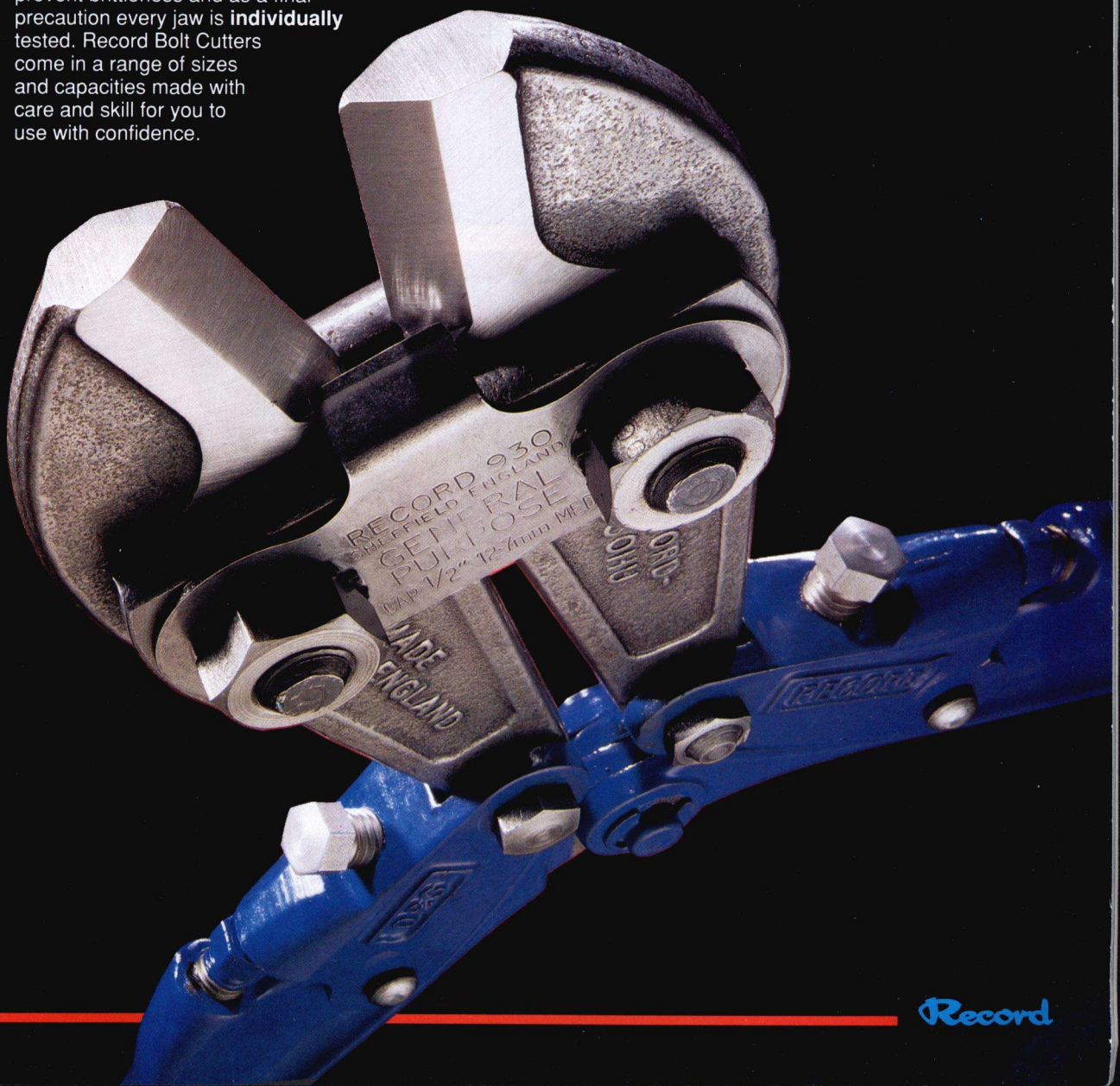
Altogether it adds up to an extremely versatile 31 piece combination plane. The difference is, that with Record, you decide what to buy as, and when you want it.



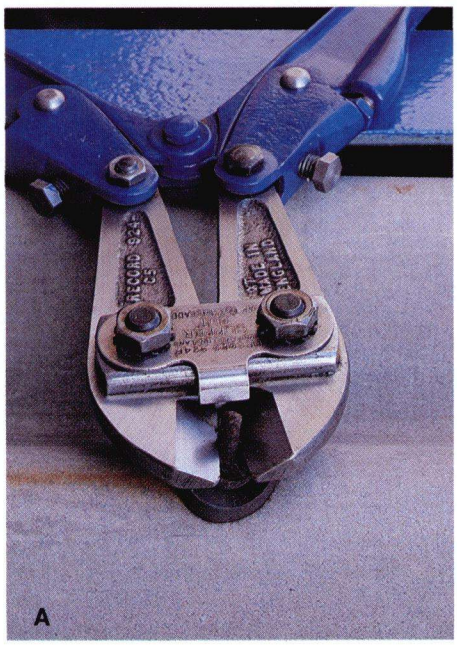
Type of cutter	Size mm (in)																
	3.2(1/8)	4	4.8(3/16)	6	6.4(1/4)	7.9(5/16)	9	9.5(3/8)	12	12.7(1/2)	15.9(5/8)	19	22.2(7/8)	32.2(1.1/4)	38(1.1/2)	45(1.3/4)
Plough	■	□	■	■	■	■	■	■	■	■	■	■	■			
Fillister														■		
Beading	■		■		■			■		■						
Fluting			■		■			■								
Tonguing			■		■											
Reeding	■ (2 reed) ■ (3 reed)				■ (2 reed) ■ (3 reed)											
Sash															■	■

bolt cutters

Record Bolt Cutters made their debut in 1923. The design was not original, the basic form and mechanism having been developed before the turn of the century. Yet Record cutters were different.
So different that they established a reputation which few have equalled and none have surpassed.
In simple terms a bolt cutter consists of two drop forged steel handles which open and close the jaws through a compound action. This action amplifies every pound of pressure on the handles to produce 80 lbs pressure between the jaws.
The jaws do not really cut. They squeeze and separate the bar by focusing thousands of pounds of pressure between two small areas.
No ordinary steel can withstand that kind of treatment. So, in conjunction with various universities and the major manufacturers, we developed our own steel; a unique formula, a Record formula, made for and used specifically for Record Bolt Cutter Jaws.
After drop forging and machining the jaws are specially heat treated, producing differential hardness values which lend resilience to the body of the jaw and penetrating rigidity to the cutting edge.
This process is very precisely balanced to prevent brittleness and as a final precaution every jaw is **individually** tested. Record Bolt Cutters come in a range of sizes and capacities made with care and skill for you to use with confidence.



Record



A A low tensile Clipper Cut head for close cropping.
B & C The End Cut and Angle Cut heads are ideal for close cutting in confined spaces.

Above
The 915F, 918F, 924F and 942F Clipper Cut, 924A Angle Cut and 924E End Cut are all designed for the close cropping of low tensile material.

924

936

942

930H

BC924H

BC918H

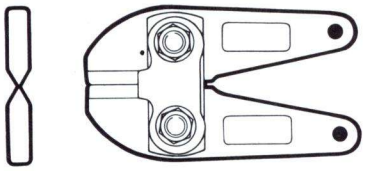
Above

The 924, 936 and 942 are Heavy Duty general purpose cutters with Centre Cut heads for use on low tensile steel and non ferrous metals.

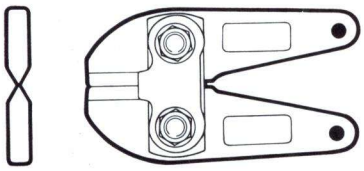
The 930H, BC924H and BC918H are High Tensile cutters also with Centre Cut heads for use on high and medium tensile steel.

High tensile cutters can be identified by the blue locking plate on the head.

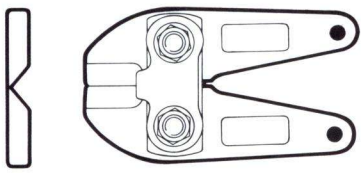
Head Types



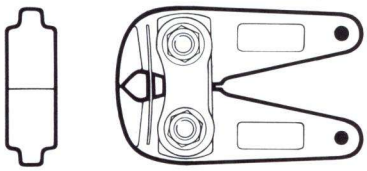
Centre Cut high tensile



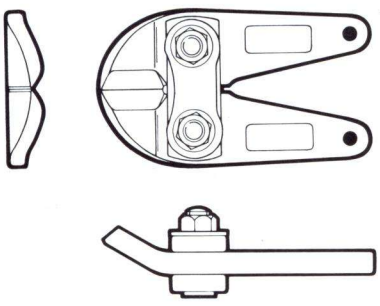
Centre Cut low tensile general purpose



Clipper Cut low tensile close cutting



End Cut low tensile close cutting



Angle Cut low tensile close cutting

Cutters and Materials

Blue catalogue numbers identify cutters which can be used on high and medium tensile steel with a tensile strength up to 112 tons/in² - 1640 N/mm²

For example:
Concrete reinforcing rod and mesh
Reinforcing wire
High tensile steel rod and bar
Case hardened chain
Cold drawn alloy steel
Tempered spring wire

Cutters identified by red numbers are f use on low tensile steel and non ferrou metal with a tensile strength up to 46 tons/in² - 711 N/mm².

For example:
Non ferrous bolts, rod and bar
Annealed tool steel rod and bar
Mild steel bolts
Mild steel rod and bar
Single strand wire

Cat No.	Overall length in	mm	Approx weight lb	kg	Type of cut	Adjustme
BC914H	14	355	2.1/4	1.0	Centre	Cam
BC918H	18	460	3.3/8	1.5	"	"
BC924H	24	610	5.3/8	2.5	"	"
914H	14	355	2.1/2	1.1	"	Arm
918H	18	460	4	1.8	"	"
924H	24	610	6.1/2	3.0	"	"
930H	30	760	10.1/2	4.8	"	"
936H	36	915	15	6.8	"	"
942H	42	1070	21.1/2	9.8	"	"
BC914	14	355	2.1/4	1.0	Centre	Cam
BC918	18	460	3.3/8	1.5	"	"
BC924	24	610	5.3/8	2.5	"	"
914	14	355	2.1/2	1.1	"	Arm
918	18	460	4	1.8	"	"
924	24	610	6.1/2	3.0	"	"
930	30	760	10.1/2	4.8	"	"
936	36	915	15	6.8	"	"
942	42	1070	21.1/2	9.8	"	"
912F	12	300	1.1/2	0.76	Clipper	Cam
915F	15	380	2.1/4	1.0	"	"
BC914F	14	355	2.1/4	1.0	"	"
BC918F	18	460	3.3/8	1.5	"	"
BC924F	24	610	5.3/8	2.5	"	"
914F	14	355	2.1/2	1.1	"	Arm
918F	18	460	4	1.8	"	"
924F	24	610	6.1/2	3.0	"	"
930F	30	760	10.1/2	4.8	"	"
936F	36	915	15	6.8	"	"
942F	42	1070	21.1/2	9.8	"	"
BC924E	24	610	5.3/8	2.5	End	Cam
924E	24	610	6.1/2	3.0	"	Arm
924A	24	610	6	2.7	Angle	Cam

election Chart

member, if you already have a pair of Record cutters you may
ly need to change the head to cut a different material.
r instance, a 924H high tensile cutter will accept low tensile
ads:
)924 Centre Cut, (H)924F Clipper Cut and (H)924E End Cut.

ue: indicates High Tensile material
d: indicates Low Tensile material

Diameter of material to be cut									CUTTER TYPE
16" 5.0mm	1/4" 6.4mm	5/16" 7.9mm	3/8" 9.5mm	7/16" 11.1mm	1/2" 12.7mm	9/16" 14.3mm	5/8" 15.9mm	3/4" 19.0mm	
									BC914H
									BC918H
									BC924H
									914H
									918H
									924H
									930H
									936H
									942H
									BC914
									BC918
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									942
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									BC918F
									BC924F
									914F
									918F
									924F
									930F
									936F
									942F
									BC924E
									924E
									924A

Handle Types

The two cutters shown on the right differ only in the Compound Action mechanism and method of adjustment.

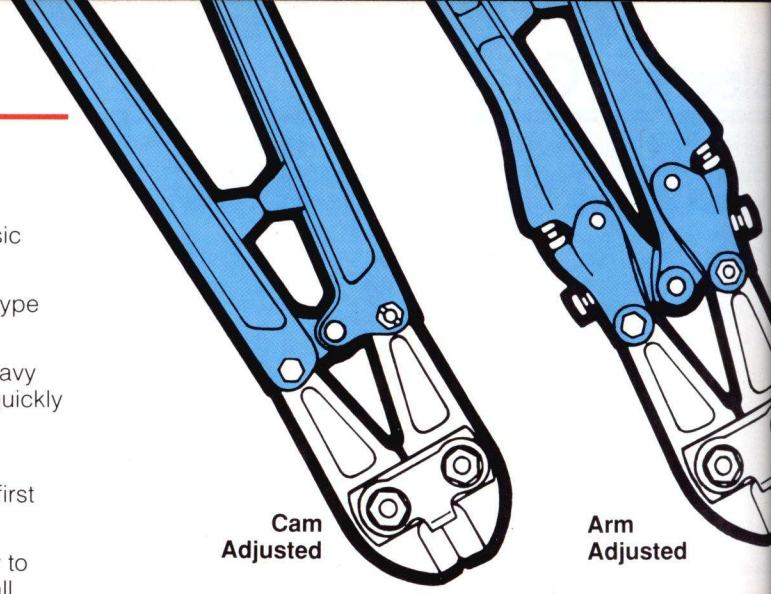
Both are adjustable, accept the same cutting heads, generate the same cutting power and have the same intrinsic strength.

However, depending on the type of work you do, each type has its own particular advantages:

Arm Adjusted: This is the traditional Record Cutter, heavy and robust with a wide range of adjustment which can be quickly changed.

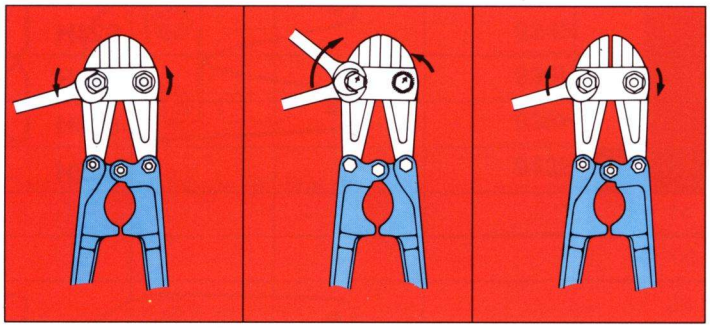
For continuous long term daily use in the bar store, engineering workshop or on the building site these are the first and only choice.

Cam Adjusted: lightweight, relatively inexpensive, easy to adjust and ideal for the farm. garden centre, garage or small workshop where they would be used regularly on a day to day basis.



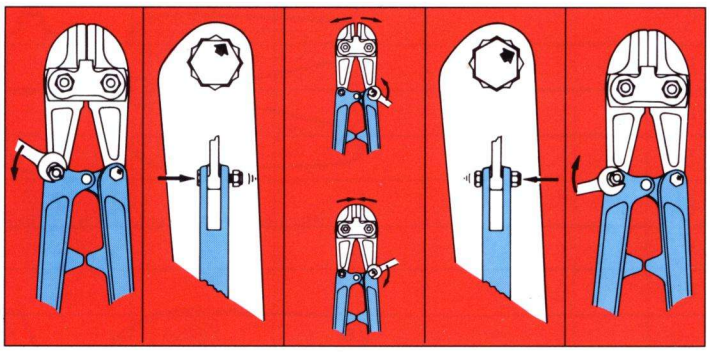
Adjustment

As a general rule when the head is adjusted for round bar or bolts a small gap should be left between the cutting edges; just enough to see light through. For flat bar the edges should be flush together.



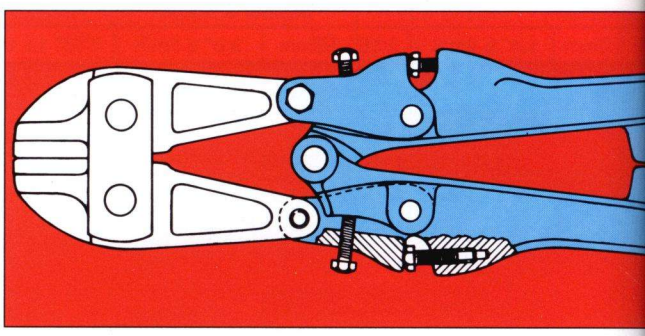
Cam Adjustment : 912F - 915F - 924A - RCA800

1. Loosen the locking nuts one turn.
2. Align the jaws by turning the cam bolts toward the cutting edges (left - clockwise, right - anti-clockwise).
3. Re-tighten locking nuts.



Cam Adjustment : All BC series cutters

1. The cam bolts on these cutters are recessed into the handle. Loosen the locking nut and tap through to release the cam bolt head.
2. Turn the cam bolts clockwise to close the jaws or anti-clockwise to open.
3. When the jaws are adjusted tap the cam bolt head into its recess, and re-tighten the locking nut.



Arm Adjustment

1. Loosen the handle adjusting nut.
2. Turn the arm adjusting bolt to align the cutting edges.
3. Re-tighten handle adjusting nut.

On Site

The most frequent cause of bolt cutter failure is temptation First the temptation to pick up the nearest pair that comes to hand and hope for the best.

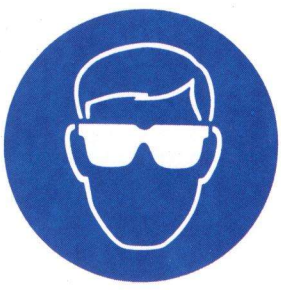
Always make sure that the cutters you choose are the righ ones to use.

The second temptation is to twist the cutter before the material has completely parted. This imposes an abnormal stress on jaws and mechanism, which are already under pressure, leading to a rapid deterioration in performance and eventual failure.

Safety

Many materials will fly when they are cut.

Always wear safety goggles and make sure other people well out of range.



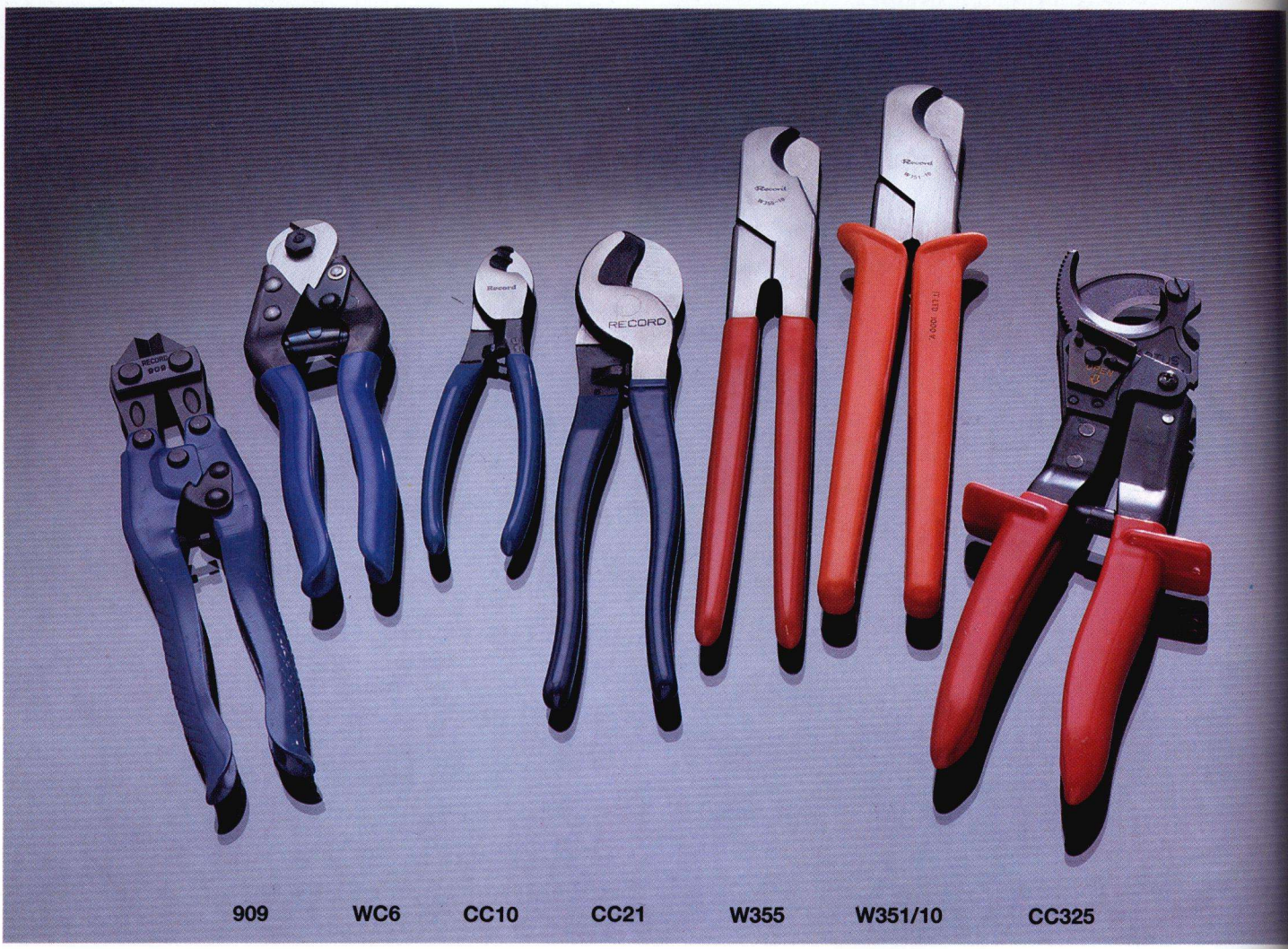
cable & wire cutters

The products detailed in this section will cut a wide variety of materials from 1.5mm steel up to 35mm armoured cable.

The jaws are drop-forged from high grade alloy steel and differentially heat treated. This process imparts the combined qualities of hardness and toughness in the areas where they are most needed: hardness on the cutting edges, toughness in the body of the jaw.

Most of these cutters can be used on electric cable and are fitted with PVC or rubber grips. These grips are purely to improve the comfort and handling qualities of the cutter and have no insulating properties.

For work on live installations the W351/10 is fitted with Nylon II insulated handles individually tested to 10000 volts for intended use up to 1000 volts AC.

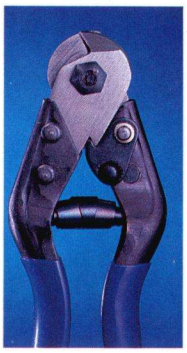


Cable Cutters

909 Drop forged steel jaws and a double fulcrum action give this compact cutter a **maximum capacity of 4.0 mm O/D soft steel or 1.5mm O/D hard steel wire.** The pressed steel handles are spring loaded for single hand operation with a thumb lock to hold them in a closed position when not in use. Length 9″/225mm.

WC6 The special cutting action of the head allows materials such as wire strand, electric cable and metal to be cut without distorting the end profile of the material. The pressed aluminium handles are spring loaded for single handed operation with a thumb lock to hold them in the closed position.

Maximum capacities:–
6.5mm mild steel strand – 85 ton/inch²
6.5mm unarmoured electric cable
5.0 mm high tensile steel rope – 115 ton/inch²
5.0mm steel wire – 21 ton/inch²
5.0mm copper and aluminium rod
4.0mm steel rod – 42 ton/inch²
2.5mm spring steel wire – 115 ton/inch²
length 7.5/8″/195mm



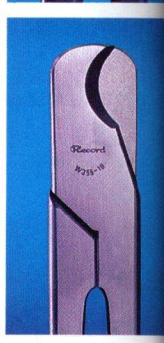
CC10 Drop forged steel handles and head joined by a hardened rivet. The head has two cutting stations, hardened and tempered to cut a **maximum 9.2mm O/D copper cable.** Length 6.1/2″/164mm.

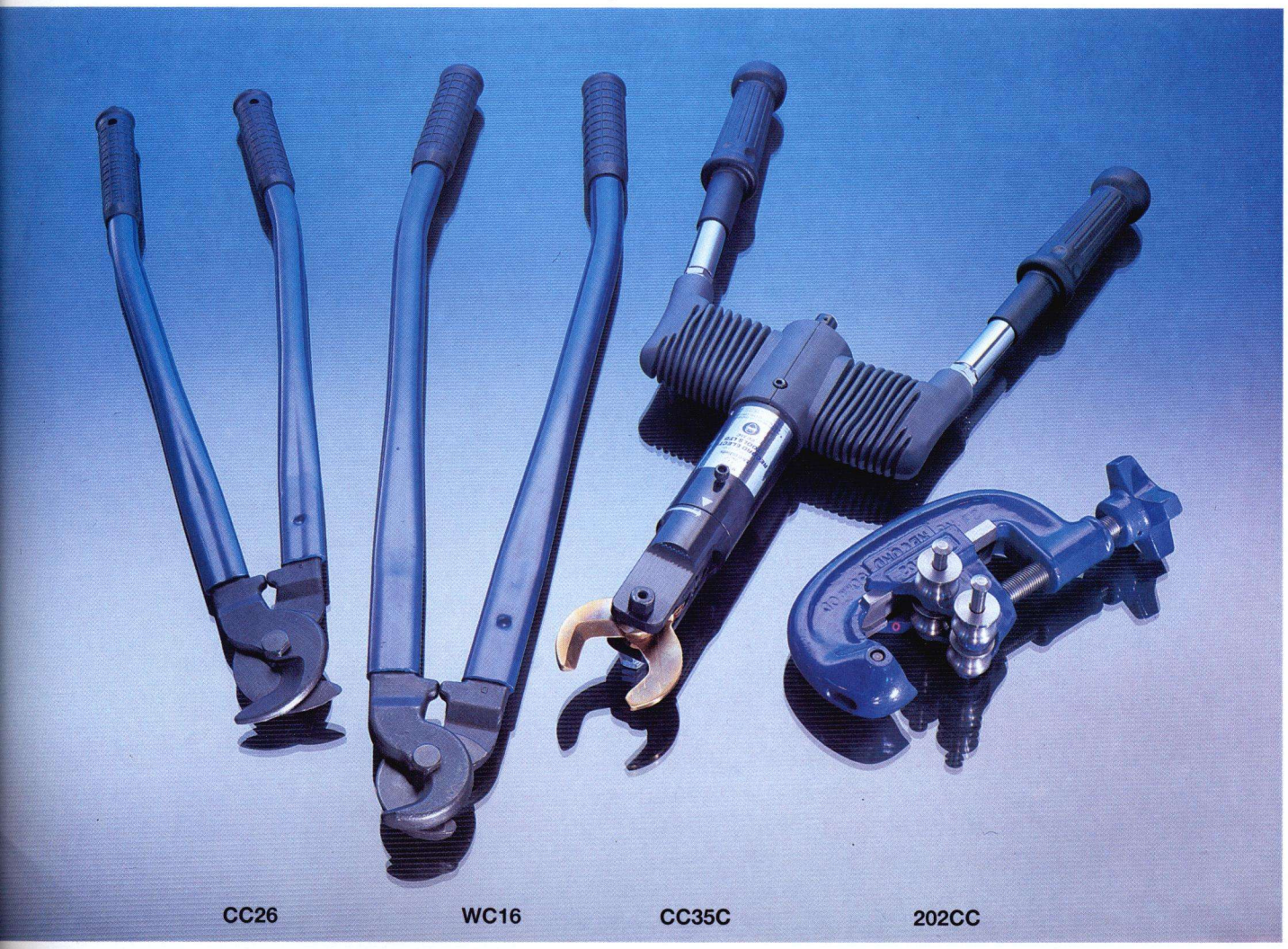
CC21 Drop forged steel handles and head joined by a hardened rivet. The head is hardened and tempered to cut a **maximum 17mm O/D copper cable.** Length 9.3/8″/238mm.

W355 Drop forged steel handles and head. The 'parrot beak' shape of the cutting edges holds the cable securely and produces minimum distortion.

W351/10 Identical to the W355, this cutter is fitted with NYLON II insulated grips. Each tool is tested to 10,000 volts AC and guaranteed up to 1,000 volts AC.

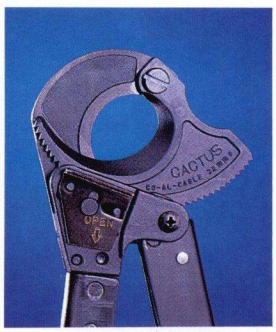
Maximum Capacity: 11.0mm O/D 19 strand copper or aluminium insulated cable.
Length: 10″/250mm.





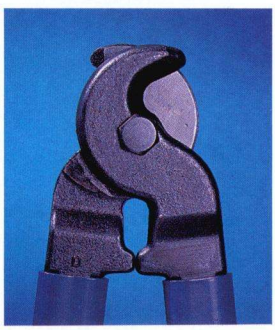
CC325 These powerful yet compact utters feature a ratchet action, which with series of small following cuts will shear up a **maximum 32mm O/D copper able.**

The pressed steel handles are spring aded for single handed operation with a nger lock to hold them in a closed osition. Length: 11"/280mm.



CC26 The drop forged steel head is ontoured to surround the cable before the ut is made. Long tubular steel handles ith rubber grips provide ample leverage to ut a **maximum 26mm O/D unarmoured opper or aluminium cables.**
ength: 23.3/4"/606mm

WC16 Of a similar design to the CC26 is cutter has slightly longer handles and ecially profiled cutting edges providing a **aximum capacity of 21mm O/D steel rmoured cable and 16mm O/D wire ope.**
ength: 28.1/4"/718mm.



CC35C Hydraulic cable cutter. These powerful cutters have Titanium Nitride/ Carbide coated jaws which are hardened to 55-60 Rockwell. Hydraulic power is generated by pumping the handles (the same action as clipping a hedge) and producing enough force to shear a **maximum 35mm O/D armoured cable.**

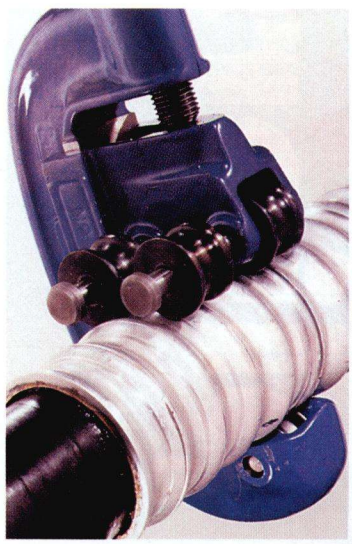
The handles can be extended for extra leverage and the head rotates through 90 degrees for ease of access.

The CC35C comes complete in a custom made carrying case.
Length: 24.1/2"/625mm.

202CC Cable sheath cutter. Developed in conjunction with Yorkshire Electricity; this new Record 202CC is used to cut through the corrugated aluminium sheath on high voltage cable.

The concave steel rollers keep the cutter on-track while the hardened steel wheel separates the aluminium at the highest point of the corrugation preventing damage to the inner layers of insulation.

For use on **PICAS (Paper Insulated Corrugated Aluminium Sheath) 11,000 volt cable (ESI standard 09–12) of 185, 240 and 300mm².**



pliers & nippers

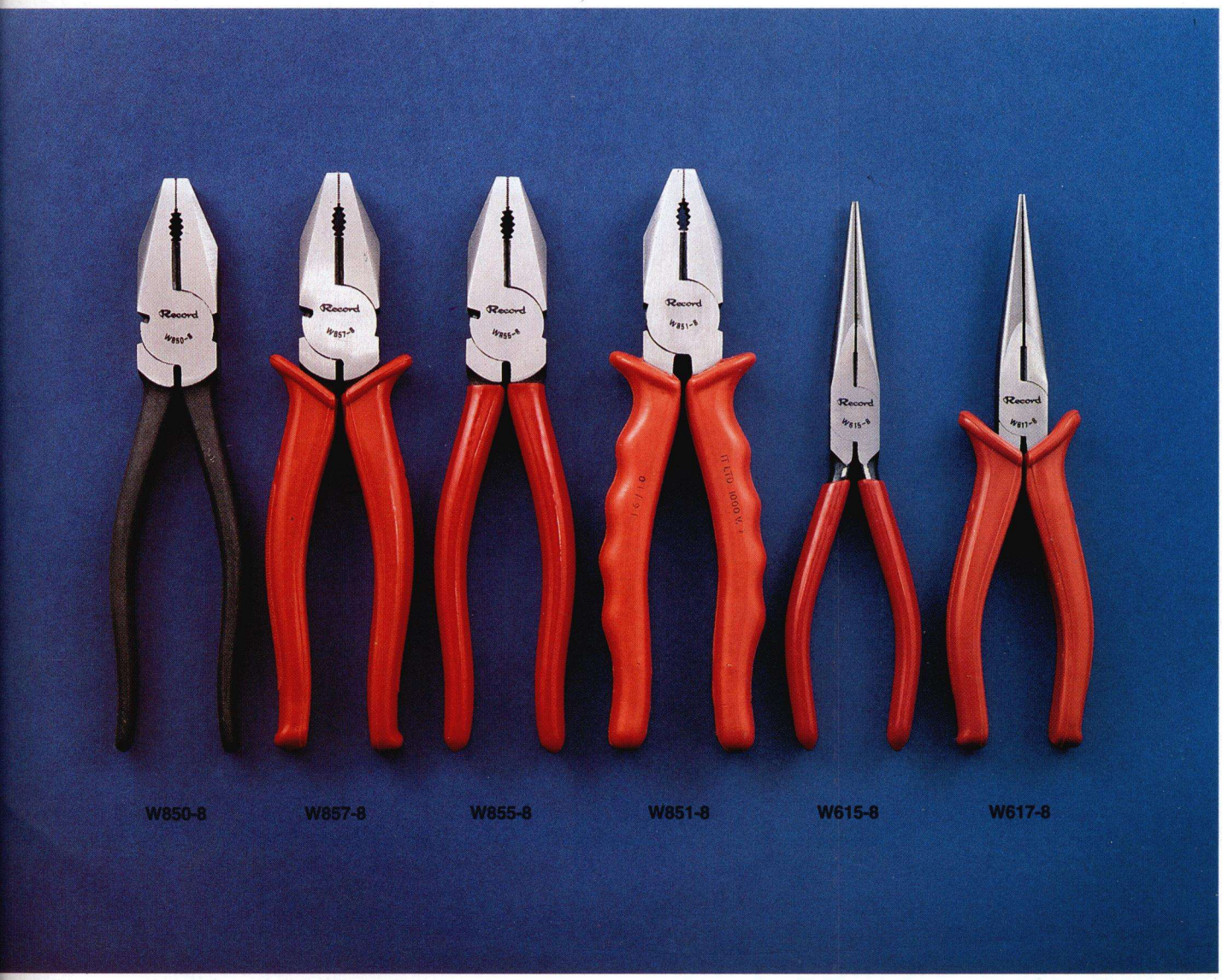
A pair of pliers is the one thing you are bound find in almost everybody's tool box, garage or kitc drawer – for most people the term 'pliers' means combination pliers – infinitely useful for gripping, w cutting, twisting and many other odd jobs for whi they were never designed, but all pliers are design to perform specific functions and the Record ran covers just about all of them.

The method of manufacture, however, is muc the same irrespective of function.

High grade tool steel is drop-forged to the ba shape of the tool. The heads are then CNC machir to an exact profile, before being hardened and tempered. In addition localised induction hardeni is applied to all cutting edges giving them extra resilience.

The steel rivets are cold formed, and heat treat for smooth operation and long term wear resistanc

Each and every tool in the Record plier range individually tested, guaranteed and manufactured under the stringent controls of The British Standa Quality Management System BS5750 Part II, ensuring a consistent quality standard at every sta of production.



Combination & Snipe Nose

Combination Pliers are multi-purpose for gripping, twisting and utting. A must in everyones' toolkit, particularly Engineers and lectricians, combining most features required of a plier. Strong flat errated jaws – for gripping flat surfaces.

Deeply serrated rounded section (burner hole) – for firmly gripping ipes, tubes and uneven objects.

Cutter is induction hardened along the entire length, with the ptimum angle close to outside edge – for flush cutting.

Cuts up to 110 ton tensile steel wire of 1.6 mm diameter on 6" and " pliers and 2 mm diameter on 8" pliers.

Joint or side notch cutter – for clean cutting of soft wire.

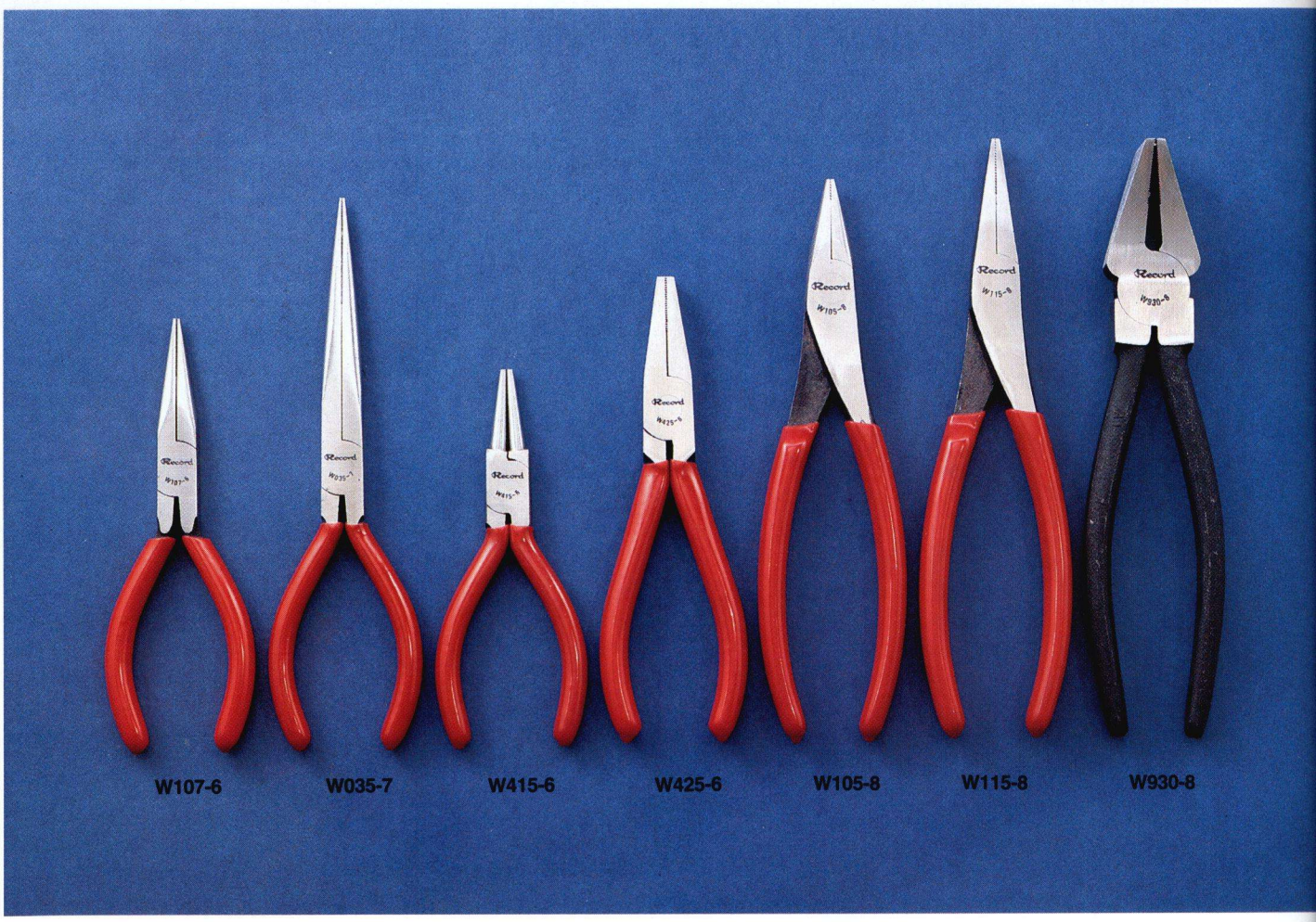
Cat. No.	Overall Length	
COMBINATION PLIERS	in	mm
UNSLEEVED		
W850/6	6	150
W850/7	7	180
W850/8	8	200
HEAVY DUTY NON-SLIP P.V.C. SHOULDERED SLEEVES		
Type Tested to 10,000 volts.		
W857/6	6	150
W857/7	7	180
W857/8	8	200
P.V.C. COMFORT GRIP SLEEVES		
W855/6	6	150
W855/7	7	180
W855/8	8	200

Combination Pliers for work on live installations. The W851/8 is fitted with Nylon II insulated handles individually tested to 10000 volts for intended use up to 1000 volts AC.

Cat. No.	Overall Length	
COMBINATION PLIERS	in	mm
W851/8	8	200

Snipe Nose Radio Pliers have finely serrated taper-nose jaws for gripping and manoeuvring in confined spaces, ideal for terminal loop forming, wire manipulating and shape forming. Side cutter is close to the outside of the plier for flusher cutting in confined spaces. Will cut 110 ton high tensile steel wire up to 1 mm diameter on 5" pliers up to 1.6 mm diameter on 6" and 8" pliers.

Cat No.	Overall Length		Inside length of jaws
	in	mm	mm
P.V.C. COMFORT GRIP SLEEVES			
W615/5	5.1/2	140	40
W615/6	6.1/2	170	54
W615/8	8	200	70
HEAVY DUTY NON-SLIP P.V.C. SHOULDERED SLEEVES			
Type tested to 10,000 volts.			
W617/5	5.1/2	140	40
W617/6	6.1/2	170	54
W617/8	8	200	70



Gripping & Manipulating

Long Snipe Chain-Nose Pliers, lightweight but sturdy with finely serrated taper-nose jaws for access to confined spaces and comfort in use. Conforms to British Telecom Specification Pliers Wiring No 2.

Cat No.	Overall Length		Inside length of jaws
	in	mm	mm
W107/6	6	150	48

Extra Long Nose Chain-Nose Pliers with finely serrated jaws ar spring tempered for durability and extra grip. With lightweight handles for comfort and manoeuvrability.

Conforms to British Telecom Specification Pliers-Wiring No 3.

Cat No.	Overall Length		Inside length of jaws
	in	mm	mm
W035/7	7.1/2	190	83

Round Nose Pliers have a sturdy tapering round nose for perfect loop forming of varying sizes.

Cat No.	Overall Length		Loop Range
	in	mm	mm
W415/6	6	150	3.5–6

Flat Nose Pliers have serrated sturdy jaws which make these robust pliers ideal for general gripping and manipulating.

Cat No.	Overall Length		Jaw Width
	in	mm	mm
W425/6	6	150	9

Short Chain-Nose Assembly Pliers with long reach handles specially designed to reduce fatigue in continuous use. The high te steel half round tapering noses enable forming and bending to be undertaken easily. The finely serrated jaws ensure a good grip with damaging the workpiece.

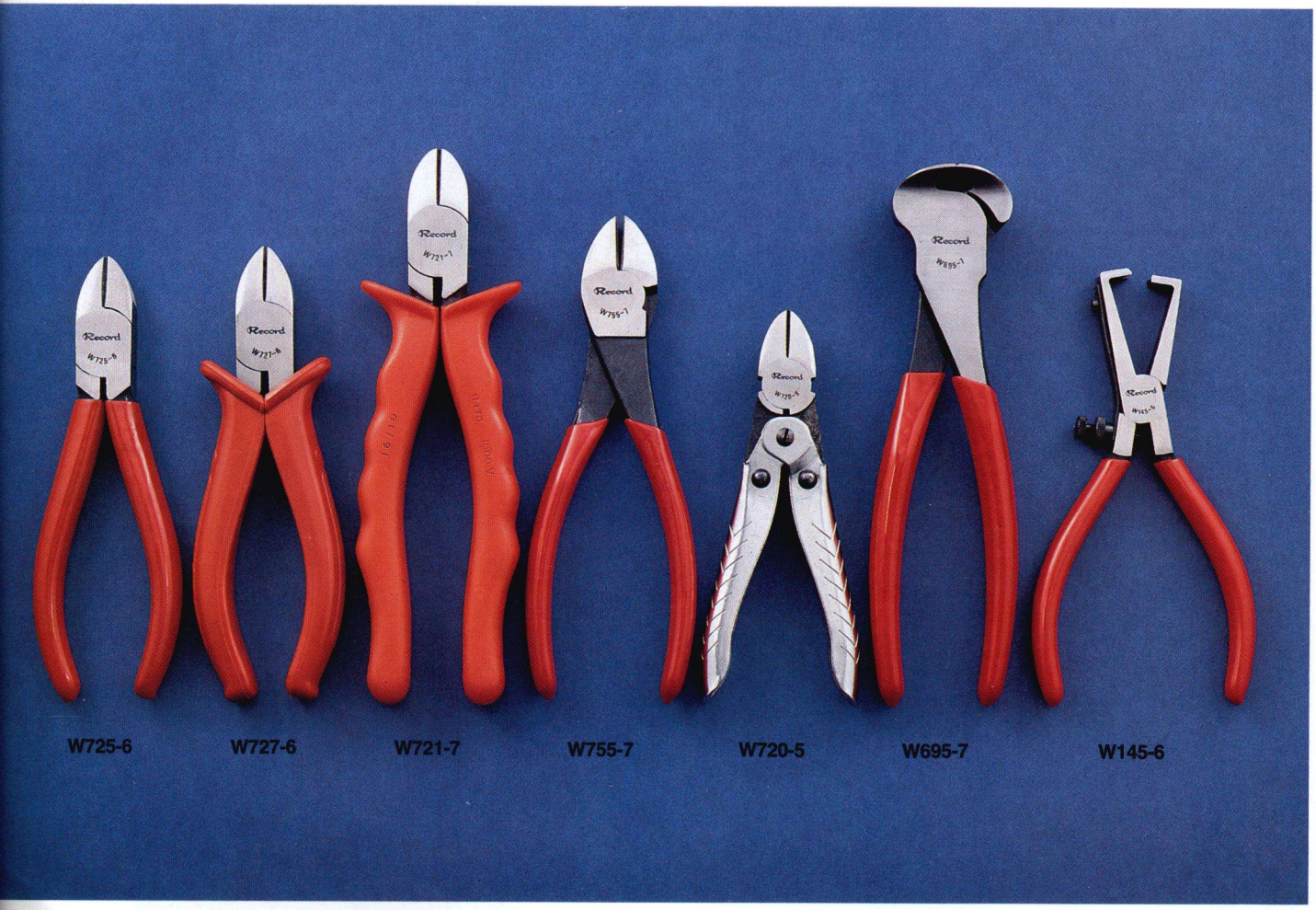
Cat No.	Overall Length		Inside length of jaws
	in	mm	mm
W105/8	8	200	32

Short Flat-Nose Assembly Pliers have long reach handles specially designed to reduce fatigue in continuous use. The stubb short nose of high tensile steel with finely serrated jaws ensures a g firm grip for secure holding, particularly good for component assen

Cat No.	Overall Length		Inside length of jaws
	in	mm	mm
W115/8	8	200	32

Glass Pliers. Designed for the Glass Industry the jaws have a wide throat to ensure a good grip on glass. Most commonly these used to trim narrow waste with greater safety.

Cat No.	Overall Length		Jaw Width
	in	mm	mm
W930/6	6	150	20
W930/8	8	200	25
W930/10	10	250	29



Cutting & Stripping

Diagonal Cutting Nippers. Since the majority of cutting is carried ut at the tips, the head shape has been designed to give added rength at this point and yet still fit into awkward and confined places.

The optimised bevel angle on the cutting edge allows hard wire to e cut without damage.

In addition to the overall hardening and tempering of the plier, the tting edges are induction hardened enabling them to safely cut 110 n tensile wire up to 1.6 mm diameter.

The cutters are very close to the outside edge for a flusher cut abling them to work close to a face and in confined spaces.

Every nipper is individually tested for cutting performance to arantee satisfaction.

t No.	Overall Length in	mm
V.C. COMFORT GRIP SLEEVES		
725/5	5	125
725/6	6	150
725/7	7	180
EAVY DUTY NON-SLIP P.V.C. SHOULDERED SLEEVES ype Tested to 10,000 volts.		
727/5"	5	125
727/6"	6	150
727/7"	7	180

For work on live installations the W721/7 is fitted with Nylon II sulated handles individually tested to 10000 volts for intended use up 1000 volts AC.

at No.	Overall Length in	mm
721/7	8	200

High Leverage Diagonal Cutting Nippers. Extra leverage is generated by offsetting the pivot enabling 110 ton high tensile steel wire up to 2 mm diameter to be cut with minimal effort.

Cat No.	Overall Length in	mm
W755/7	7	180

Lever Assisted Diagonal Cutting Nippers. The compound lever action with spring return enables 130 ton high tensile steel wire up to 1.6 mm diameter to be cut with minimal effort.

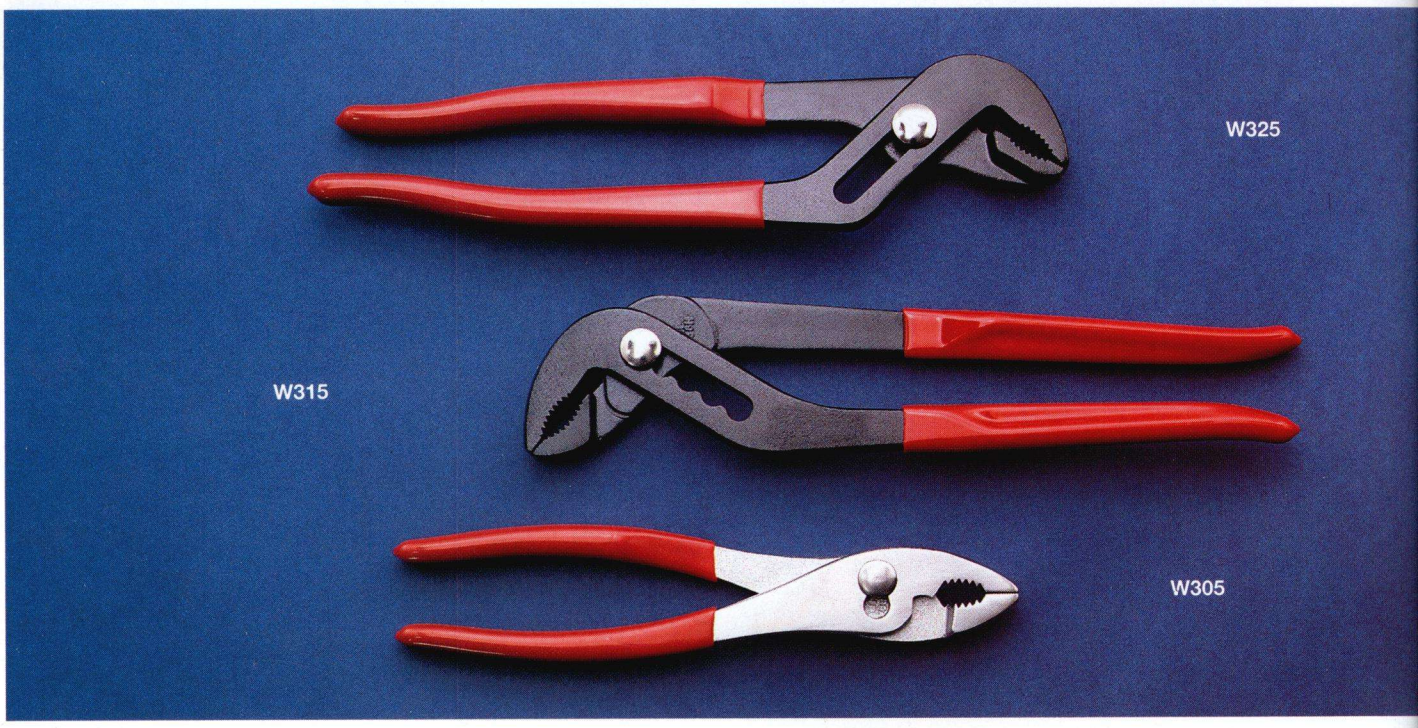
Cat No.	Overall Length in	mm
W720/5	5.1/2	140

High Leverage End Cutting Nippers have specially wide cutting edges with maximum throat clearance together with extra leverage achieved by offsetting the pivot enable this tool to cut 110 ton high tensile steel wire up to 2 mm diameter with minimal effort.

Cat No.	Overall Length in	mm
W695/7	7	180

End Wire Stripper. The adjustable jaws can be pre-set for stripping up to 4.5 mm diameter wire enabling perfect terminal ends to be produced every time. With spring return action for easy operation.

Cat No.	Overall Length in	mm
W145/6	6	150



Adjustable Pliers

Waterpump Pliers – Groovejoint. Same principal as slipjoint but with five position adjustment through curved grooves giving a more robust tool with a thicker more comfortable handle.

Waterpump Pliers – Slipjoint. The multi-adjustment sliding jaws enable these pliers to maintain a parallel grip from 0–50 mm. The deeply serrated pipe grip makes this an ideal multi-purpose plumbing tool for large gripping jobs.

Slipjoint Pliers. Chromium plated and fitted with red PVC sleeves. The two position sliding jaws enable a greater range of objects to be gripped in the serrated flat jaws or deeply serrated round jaws. An ideal tool kit item.

Cat No.	Overall Length		Jaw Opening
	in	mm	mm
W325/10	9.1/2	240	0–50
W315/10	9.1/2	240	0–50
W305/6	6.1/2	170	6–19
W305/8	8	200	13–25

Hand Punch

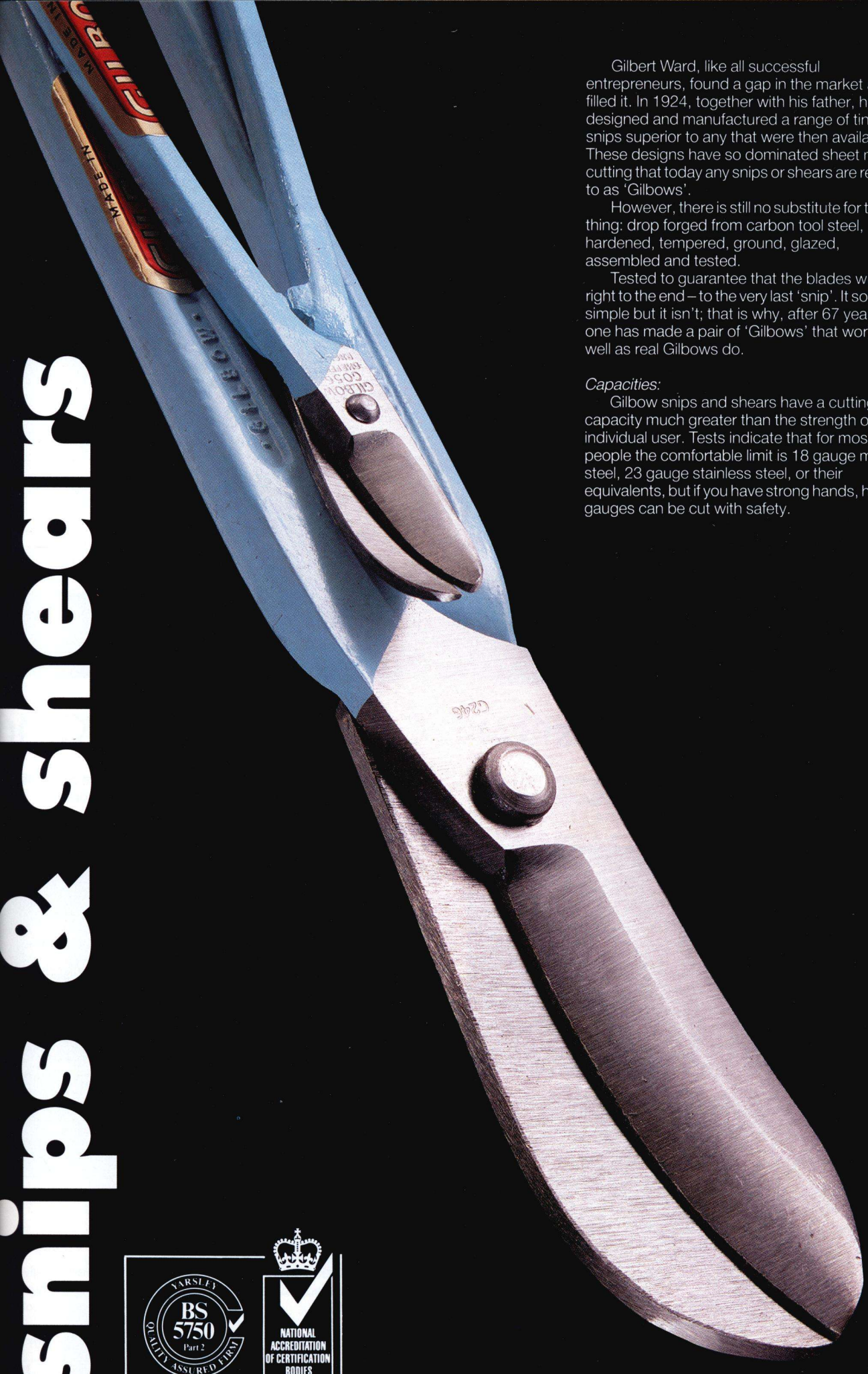
The Record Hand Punch is manufactured from drop forged steel, and comes complete with 5 different sizes of Punches and Dies made from tool steel. For easier portability the whole set is supplied in a sturdy metal carrying case.

It has been designed with the Professional user in mind especially Sheet metal workers, Woodworkers, Mechanics and Electricians.

Complete with Punches and Dies 5.5 mm, 6.5 mm, 7.5 mm, 8.5 mm and 10.5 mm.

PUNCHING CAPACITIES	
Material	**Max Thickn**
SHEET STEEL	1.6 mm
HARDBOARD	8 mm
PLYWOOD	6 mm
CARDBOARD	8 mm
LEATHER	8 mm
RUBBER	8 mm

snips & shears



Gilbert Ward, like all successful entrepreneurs, found a gap in the market and filled it. In 1924, together with his father, he designed and manufactured a range of tinmen's snips superior to any that were then available. These designs have so dominated sheet metal cutting that today any snips or shears are referred to as 'Gilbows'.

However, there is still no substitute for the real thing: drop forged from carbon tool steel, hardened, tempered, ground, glazed, assembled and tested.

Tested to guarantee that the blades will cut right to the end – to the very last 'snip'. It sounds simple but it isn't; that is why, after 67 years, no one has made a pair of 'Gilbows' that work as well as real Gilbows do.

Capacities:

Gilbow snips and shears have a cutting capacity much greater than the strength of the individual user. Tests indicate that for most people the comfortable limit is 18 gauge mild steel, 23 gauge stainless steel, or their equivalents, but if you have strong hands, heavier gauges can be cut with safety.

YARSLEY BS 5750 Part 2 QUALITY ASSURED FIRM

NATIONAL ACCREDITATION OF CERTIFICATION BODIES

Record

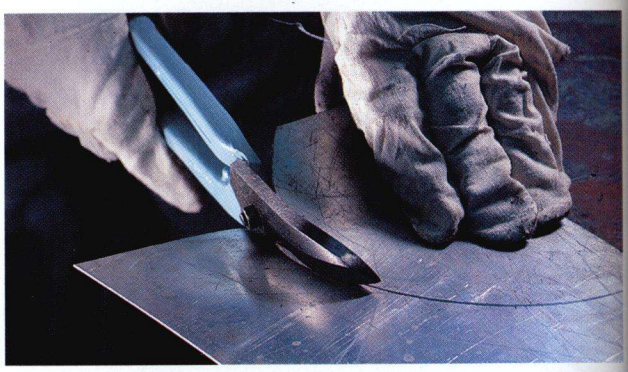
General Purpose Snips G245

Made in four sizes for straight and off-straight cutting.
The G245S range is fitted with spring divided handles which automatically open the snips at the end of each cut.

Cat No.	Length	
	in	mm
G245/8	8	200
G245/10	10	250
G245/12	12	300
G245/14	14	350
Spring Divided Handles		
G245S/8	8	200
G245S/10	10	250
G245S/12	12	300
G245S/14	14	350

Curved Blade Snips G246

Designed to compliment the G245 range, these snips will make tight radius cuts in a clockwise or anticlockwise direction.



Cat No.	Length	
	in	mm
G246/8	8	200
G246/10	10	250
G246/12	12	300

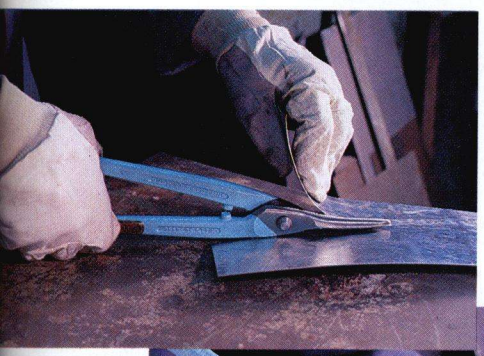
Jeweller's Snips

Short bladed light duty snips often used by jewellers, silversmith and model makers. Available in a straight blade (G56) and curved bla version (GO56).

Cat No.	Description	Length	
		in	mm
G56	Straight bladed	7	175
G056	Curved bladed	7	175

Heavy Duty Shears

In addition to the G950 used for straight cutting, this range includes ree crank handled shears which can also be used for off-straight tting. The G69 and G691 are right-hand cranked for working nticlockwise and the G67 is left-hand cranked for working clockwise.



G950

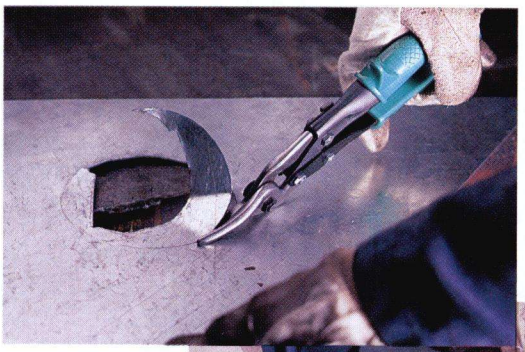
G691

Cat No.	Description	Length	
		in	mm
G69	Right-hand cranked	11	275
G691	Right-hand cranked	14	350
G67	Left-hand cranked	11	275
G950	Straight bladed	12	300

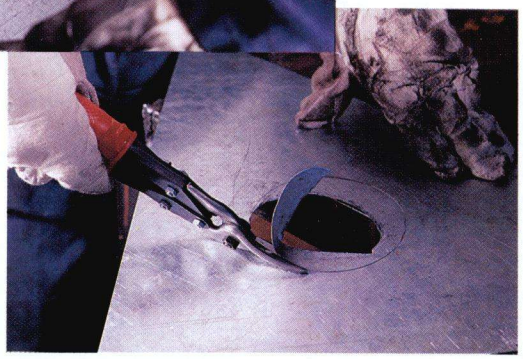
Record Supasnips

These compact 10"/250mm snips have a double fulcrum compound action to amplify the cutting power of the relatively short handles.

Made in three styles for left, right and straight cutting, Supasnips have a spring return action and comfortable plastic grips.



G17



G19

Cat No.	Description	Length	
		in	mm
G17	Right cut – Green	10	250
G18	Straight cut – Yellow	10	250
G19	Left cut – Red	10	250

pipe wrenches

Even if you have never used a pipe wrench, everybody, directly or indirectly, uses pipe. Liquids, solids, gas, even electricity pass through some kind of pipework sooner or later.
Record have made and sold millions of wrenches for this vast industry and are the largest manufacturer of pipe tools in the U.K.Large industrial users and government departments regularly specify Record Pipe Tools.
Simply stated, the materials, workmanship and manufacturing practices we employ satisfy the stringent demands of these users for strength, reliability and safety.
But you don't have to be a Ministry or a Multinational to appreciate that. Few tools are more dangerous than a poorly made pipe wrench, and few things are more important than confidence in the tools you use.
One of many good reasons to choose Record.

FUNCTION AND SAFETY

The pipe wrench differs from an ordinary wrench in having sharp 'V' shaped teeth machined into the jaws.
These teeth will grip a smooth round pipe where a smooth jawed wrench would not. Therefore, a pipe wrench should never be used on nuts, bolts or hexagonal fittings which will be damaged.
Pipe wrenches are hand tools designed to withstand the maximum leverage that any one man can generate. Even though we include a generous margin of safety, hammering or levering the handle can cause a dangerous, instantaneous failure.
If the wrench won't turn the pipe, use a larger wrench.

Stillson Wrench *

The most popular and widely used of all pipe wrenches. s you can see from the illustration below the Stillson has three ssential load bearing components; Handle, Hook Jaws and djusting Nut.

All three are made of steel, the handle and jaw being drop rged.

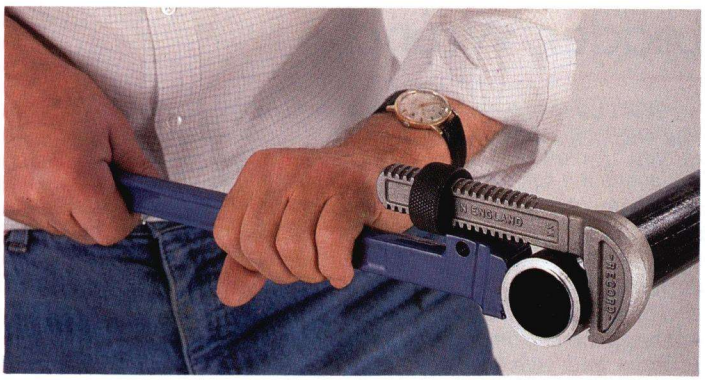
At the front of the handle, behind the integral jaw, is a step or utment. This step absorbs pressure from the nut and also acts s a fulcrum pivoting the hook jaw toward the handle as load is plied.

As you increase pressure on the handle the jaws put more te' on the pipe.

The only function of the cast SG iron frame is to hold all these mponents together. Some 'stillson wrenches' are made in ch a way that this frame carries the full working load. These ols are not made by reputable manufacturers and can be ngerous to use.

Depending on size, the jaw teeth are flame hardened or duction hardened and air tempered. This process imparts a sistance to wear and distortion for a long, effective working life. is adjusting nut is also hardened and tempered.

Conforms to British Standard BS3594 Part 1.



The only function of the frame is to hold the components together.

Type No.	Length when open		Pipe capacity		Approx weight	
	in	mm	nom bore in	o.d. mm	lb	kg
300/8	8	200	.3/4	27	.3/4	0.3
300/10	10	250	1	34	1.1/2	0.7
300/12	12	300	1.1/4	42	2	0.9
300/14	14	350	1.1/2	49	2.3/4	1.3
300/18	18	450	2	60	4.1/4	1.9
300/24	24	600	2.1/2	76	7.1/2	3.4
300/36	36	900	3.1/2	102	15.1/2	7.0

Leader Wrench

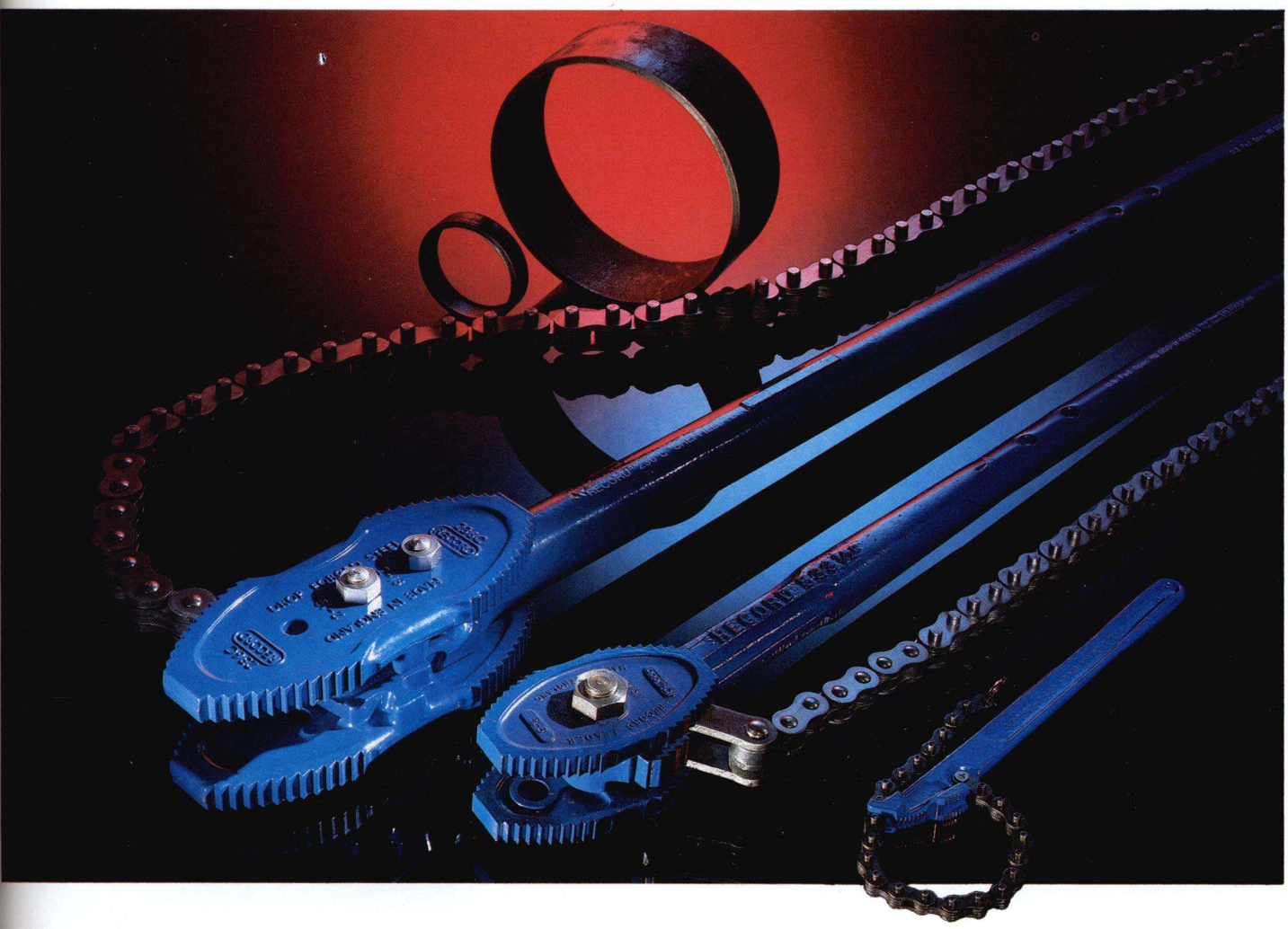
This heavy duty wrench is used extensively in the oil, gas and civil engineering industries.

Unlike the Stillson, the frame and handle are a one piece ductile iron casting. Very strong, guaranteed against breakage and conforming to the most stringent US Federal Specifications.* Both jaws of a Leader are replaceable and made from drop forged steel. The teeth are hardened and tempered to resist wear and distortion. The adjusting nut is also hardened and tempered. Although the Leader is heavier than the Stillson, it is much stronger and, size for size, has a larger capacity.

**Conforms to torque loadings in U.S. Federal Specification GGG-W-651.*

Type No.	Length when open		Pipe capacity		Approx weight	
	in	mm	nom bore in	o.d. mm	lb	kg
350/8	8	200	1	34	1	0.5
350/10	10	250	1.1/2	49	2	0.9
350/12	12	300	2	60	2.3/4	1.2
350/14	14	350	2	60	4	1.8
350/18	18	450	2.1/2	76	6	2.7
350/24	24	600	3	90	10	4.5
350/36	36	900	5	140	20	9.1

Size for size a larger capacity.



Chain Pipe Wrenches

A Chain Pipe Wrench is used in confined spaces, for instance where the pipe is in a trench, against a wall or close to a nest of other piping.

Once the chain is looped around the pipe and locked, the jaws will grip in the direction of the turn. The pipe can then be tightened or loosened with short strokes of the handle.

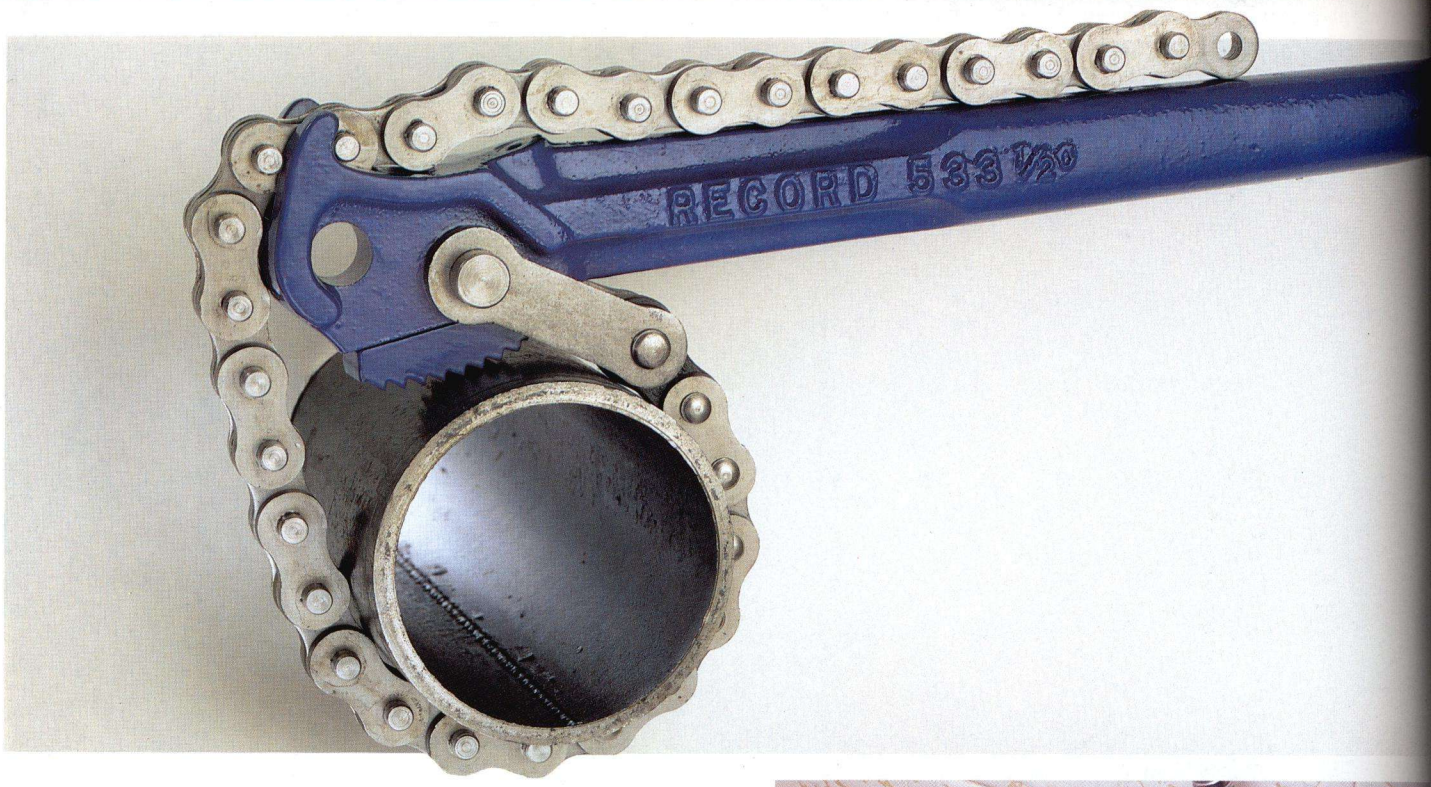
The jaws are made from drop-forged steel which is then hardened and tempered. Only the front set of teeth bear on the pipe which means that when these become worn the jaws can be reversed, doubling the life of the tool.

The handles (233C to 533.1/2C) are tubular steel attached to solid ductile iron castings.

The 240, 231.1/2 and 232.1/2 are entirely drop forged steel.

Left to Right:

240 ..... Handiwrench
236C ..... Chain wrench
231 1/2 ..... Chain wrench
234C ..... Chain wrench
232 1/2 ..... Chain wrench
533 1/2 ..... Chain pipe tongs
235C ..... Chain wrench
233C ..... Chain wrench



'Leader' Chain Pipe Tongs

The 'Leader' has offset jaws which allow the direction of the turn to be reversed without removing the tool from the pipe. These tongs also have a central jaw so that they can be used as a fittings wrench when the side jaws are removed.

Chain Wrench Specifications

	Cat No.	Capacity nom in	Capacity o.d. mm	O/A Length in	O/A Length mm	Proof Torque lbs	Max safe load lbs	Approx weight lb	Approx weight kg
	231.1/2	5/16-2	61	14	350	3600	300	3	1.38
	232.1/2	5/16-3	90	21.1/2	546	6000	300	6.1/2	3.03
*	**233C**	1/2-4	115	36.1/2	930	14000	400	14	6.4
*	**234C**	1-8	220	51	1295	20000	400	30	13.6
*	**235C**	2-12	330	64.1/2	1638	25000	400	50.1/2	23
*	**236C**	2-18	485	88.1/2	2250	50000	500	90	40.9
*	**533.1/2c**	3/4-6	165	44.1/2	1130	15000	400	21	9.6
	240	-	100	3	330	3450	300	1.1/2	0.65

**Conforms to US Federal Specification GGG-W-651.*

Handiwrench (240)

This small versatile wrench is a one piece steel forging with a capacity of 4" (100 mm). The direction of turn can be reversed without removing the tool from the work and its ability to grip round square or irregular shapes makes it a useful addition to th domestic or industrial toolbox

Basin Wrench

Some plumbing fixtures, such as found under sinks and washbasins for instance, are impossible to unfasten with a conventional spanner or wrench. The double ended Back Nut Wrench is a simple but effective solution to this problem.

Cat No.	Length in	Length mm	Max capacity o.d. in	Max capacity o.d. mm	Approx weight lb	Approx weight kg
6552	10	250	(1/2	13)	1.1/4	0.6
			(3/4	19)		

pipe cutters

Pipe cutters are used on steel or cast iron pipe. For copper, brass or aluminium 'pipe' you would use a Tube Cutter.
It's rather like boats and ships, no one is quite sure where one ends and the other begins, but the tools themselves all work in the same way.

The pipe sits between a set of wheels or a wheel and rollers. The tool is rotated round the pipe and the handle is turned; with each orbit the hardened and tempered wheel bites deeper into the metal until the pipe parts.

The cutter wheels are machined and profiled from solid steel on a CNC (Computer Numeric Controlled) lathe centre. This ensures that each wheel is precisely the right shape – a broad strong central boss tapering down to a narrow cutting edge.

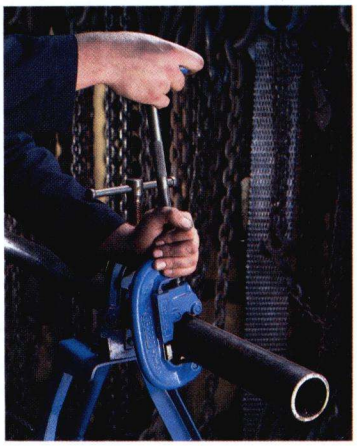
Not a sharp edge, which would quickly wear down, but a radiused edge to squeeze and separate the material of the pipe.

Accurate cutting depends on the wheels following exactly the same line around the pipe on each sweep. This is known as 'tracking' and the track of every Record cutter is checked before it leaves the factory.

Steel mainscrews, wheels and rollers combined with cast S.G. ductile iron bodies and slides make Record Pipe Cutters tough, reliable and guaranteed against breakage.

Roller Pipe Cutters

This tool, designed to cut steel pipe, has one fast cutting wheel and two wide rollers. These rollers keep the cutter squarely on track and also smooth down the burr leaving a smooth clean cut ready for jointing or threading.



Cat No.	Pipe Capacity		Approx Weight	
	Nom bore	o.d.		
	in	mm	lb	kg
202	1/8-2	10-60	7	3.2
203	1-3	34-90	15	6.8
204	2-4	60-115	20	9.1

Three Wheel Pipe Cutters

Designed to cut steel pipe in confined spaces. Each of the three wheels covers one-third of an arc so that pipe which is against a wall or in a corner can be cut without the cutter being completely rotated.

Cat No.	Pipe Capacity		Approx Weight	
	Nom bore	o.d.		
	in	mm	lb	kg
102	1/2-2	22-60	4.1/2	2.0
103	1.1/2-3	49-90	8.1/2	3.9
104	2.1/2-4	76-115	14	6.4

Link Pipe Cutters

Also for confined spaces, but specifically for cast iron pipe, this cutter has a number of wheels, located in what amounts to a caterpillar track.

The links of this track are wound around the pipe, locked onto the cutter handle and tensioned with a thumb screw or nut.

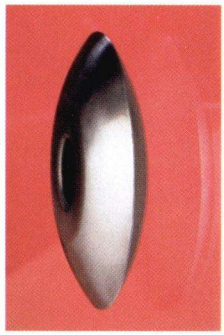
As each wheel covers a small section of the arc, only limited movement is required and even if the pipe is irregular in shape, the linked wheels will follow the contour.

Special Applications

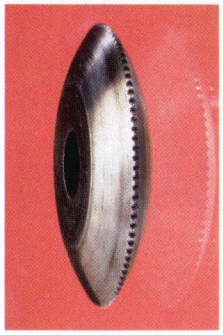
Link pipe cutters are available for materials other than cast iron. Chilled Cast Iron can be cut with a 45s or 46s which are fitted with serrated wheels.

For Ductile Iron you should order a 45T or 46T fitted with extra thin wheels. Steel pipe can also be cut with the 45T or 46T. This is a slow process because of the nature of the material but, if power is unavailable or the pipe to be cut contains a volatile substance this type of cutter will prove invaluable.

Cat No.	Pipe Diameter Capacity				Number of wheels	Approx weight	
	Nom bore		Approx o.d.				
	in	mm	in	mm		lb	kg
45	2-12	50-300	2.9/16-13.5/8	65-340	14	22	10
46	5-18	125-450	5.3/4-20	145-410	14	36	16.8

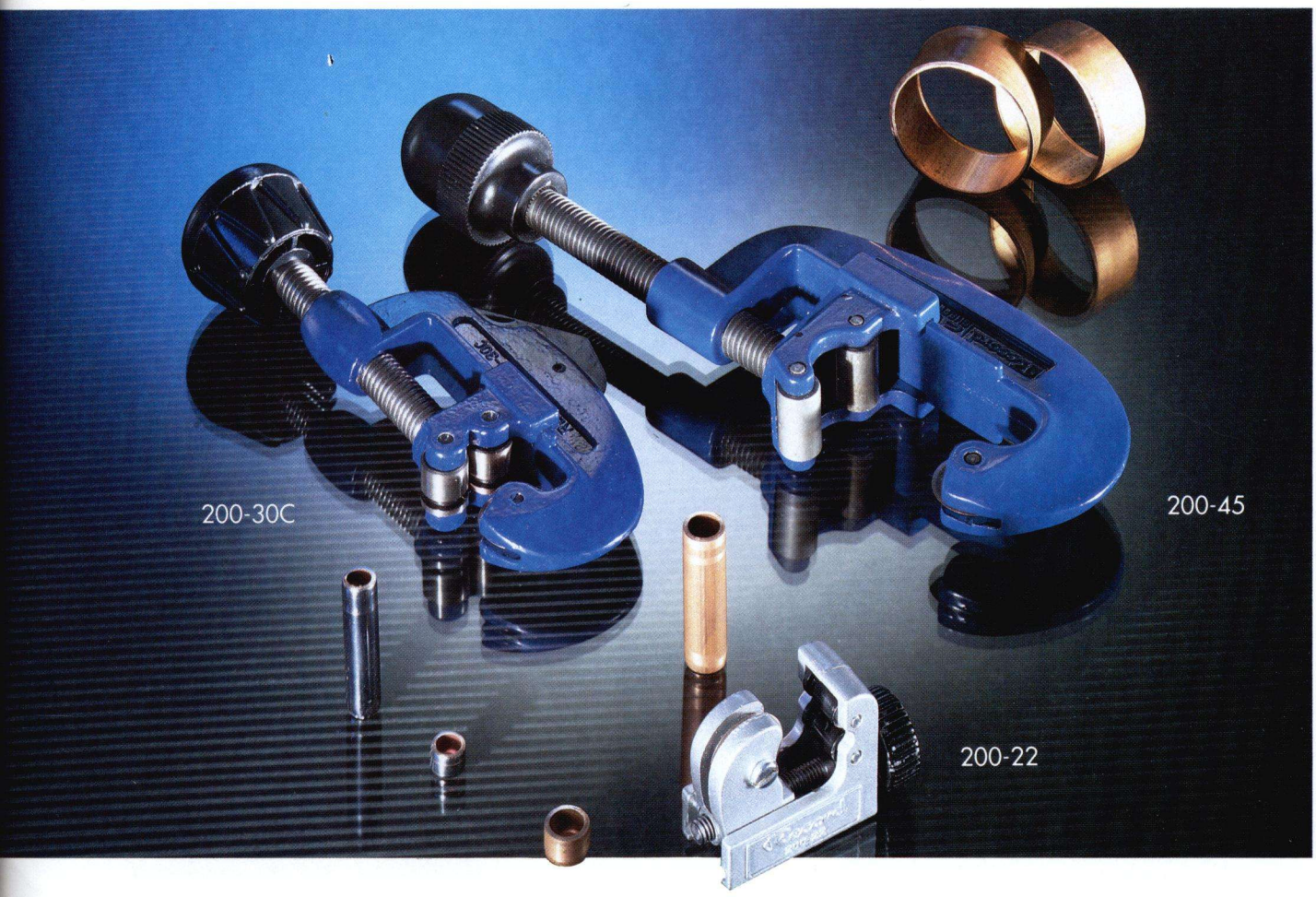


Standard Wheel



Serrated Wheel

Extra Thin Wheel



Tube Cutters

These compact and accurate cutters have steel wheels and rollers mounted in precision die-cast bodies. Strong and lightweight they are designed primarily to cut copper, brass, aluminium or thin walled steel.

200-22

For microbore or standard central heating systems this cutter is ideal in tight corners and confined spaces.
Capacity: 1/8" to 7/8" o.d. (3 to 22 mm)
copper, aluminium and brass.

200-30C

This cutter has a capacity of 1/8" to 1.1/8" o.d. (3 to 30 mm) on copper, brass, aluminium and thin walled steel.
A spare cutter wheel is located in the handle. The 200-30 also features a steel de-burrer which folds into the body when not in use.

200-45

The extensive use of plastic pipe led to the development of the 200-45 with an exceptionally thin cutting wheel and wide rollers.

It will also cut copper pipe but its use should be confined to one or the other material since extended use on copper will reduce the effectiveness of the wheel on plastics.
Capacity 9/16" to 1.3/4" o.d. (15 to 45 mm).

De-Burrer

Three tool steel cutters are moulded into a strong plastic body to remove fash from the inside and outside of copper, aluminium or brass tube 1/8" to 1.1/4" nom. (3 mm to 32 mm).

Pipe Saw - PS4

The PS4 cuts pipe up to 4" diameter.

The first saw specifically designed to cut metal pipework. Cuts through 2" diameter pipe in less than 8 seconds.

The Record Pipe Saw (PS4) provides the professional user with the capacity to cut up to 4" diameter.

It is light in weight only 2.8 kg and is therefore easily used when cutting overhead pipework and when pipe is in a confined space.

It is equally useful when used at the workbench or with a portable pipe vice.

The guiding pipe clamp not only ensures an accurate 90 degree cut everytime, but also captivates the saw to the pipework ensuring safety in use.

Safety is also assured with the inclusion of double insulation both to V.D.E. and C.E.E. standards.

This protection is particularly important when working on existing pipework installations where water or other fluids may be present.

Saw Blades

The Record SSB2 and SSB4 are specifically designed to cut mild steel pipe up to 2" diameter and 4" diameter respectively. These blades ensure accurate 90 degree cutting of pipework due to their excellent distortion free cutting action. This is achieved by a unique combination of blade thickness and saw tooth pattern. For cutting high grade steel pipe and tube it is essential that the SBS4 saw blade be used.

Please refer to the saw selection chart for saw blade specification.

Accurate 90 degree Pipe Cutting.

A combination of three factors ensure a totally accurate 90 degree cut.

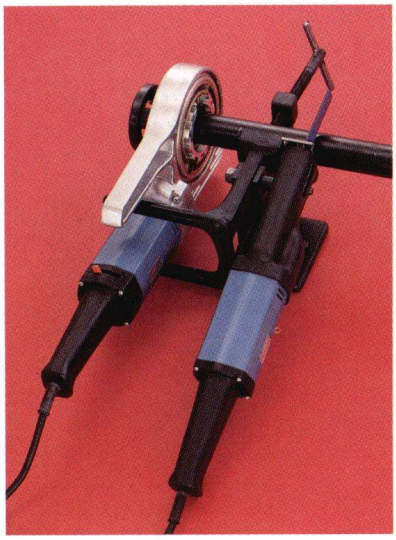
1. Rectangular hardened steel lifter rod.
2. Unique design of the pipe clamp with its broad square location point.
3. Special Record Saw Blades made from High Speed Steel which resist distortion.

Standard Specification

Motor	Single phase 750W series motor, 220V, 50/60 Hz, 750W, 3-5A 110V, 50/60 Hz 750W, 7A
Rotation Speed	No load operation 28000 rpm
Number of strokes	No load operation 2200 strokes/min Rated load operation 1400 strokes/min
Length of stroke	26 mm 1"
Shape of stroke	Elliptical
Weight	2.8 Kg

Standard Equipment

Description	Cat. No.
Metal Carrying Case complete with saw selection chart	–
Power Saw – 110V or 240V complete with plug	PS4 / PS4(24
Pipe clamp – 2" capacity	PSC2
Allen Key	–
Special Saw Blades (2)	SSB2
Instruction manual and guarantee card	–

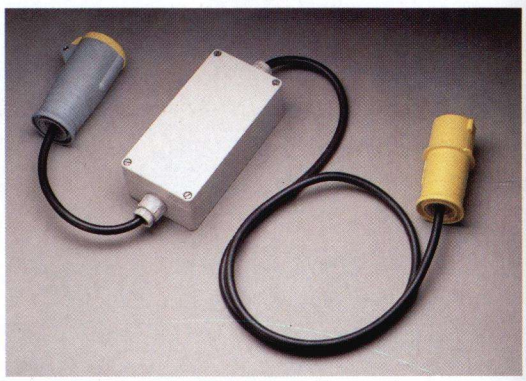


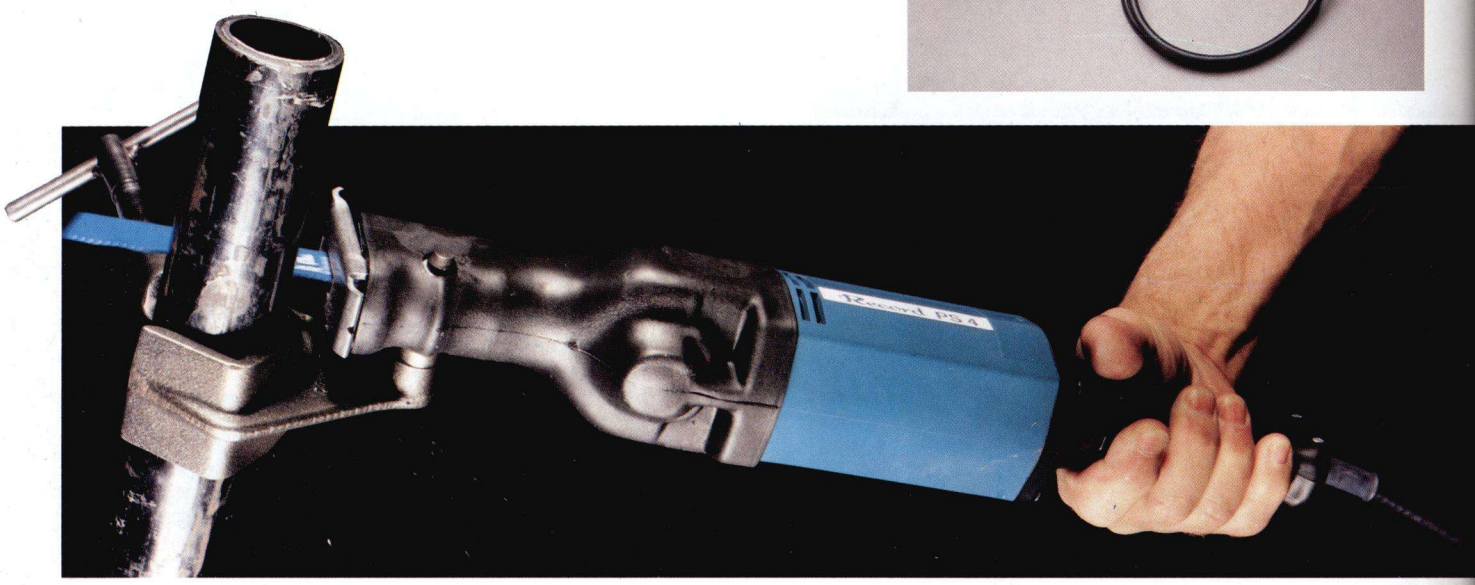
Double Holder UH2

An extremely usefu accessory for the worksh pipe warehouse or site is t PS4 Saw & Power Die Sto double holder. When the holder is attached to the workbench or tripod stand portable pipe cutting and threading centre is created allowing cut lengths to be produced accurately with addition of a threading fac when required.

Cutting High Grade Steel

When cutting materials other than mild steel pipe ie. stainles steel, it is essential that the electronic speed control be used in conjunction with the PS4 saw and SBS4 saw blades. It is also essent to lubricate and cool the saw blade using Record AS205 cutting lubricant.





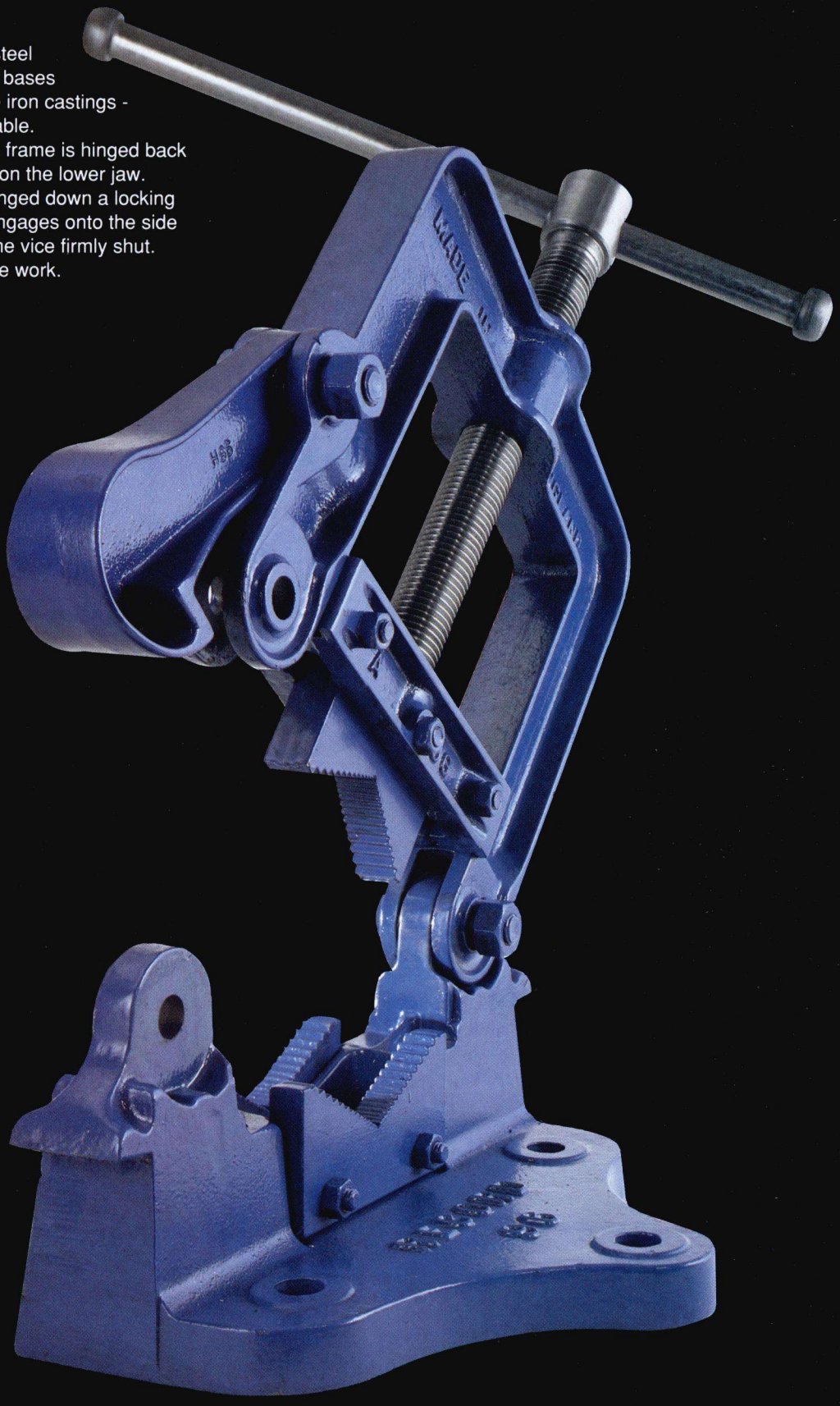
Hinged Pipe Vices

So called because the frame (containing the mainscrew and top jaw) and the base are hinged together.

The replaceable steel jaws are accurately machined, hardened and tempered.

The handle and mainscrew are also steel while the frames and bases are strong SG ductile iron castings - guaranteed unbreakable.

To grip a pipe the frame is hinged back and the pipe located on the lower jaw. When the frame is hinged down a locking hook automatically engages onto the side of the base holding the vice firmly shut. Ideal for fast repetitive work.



pipe vices

Cat No.	Pipe capacity		Approx weight	
	Nom bore mm	o.d. in	lb	kg
92C	10-60	1/8-2	8	3.6
92.1/2C	10-76	1/8-2.1/2	10.1/2	4.7
93.1/2C	10-102	1/8-3.1/2	17.1/2	7.9
96	10-165	1/8-6	39	17.7

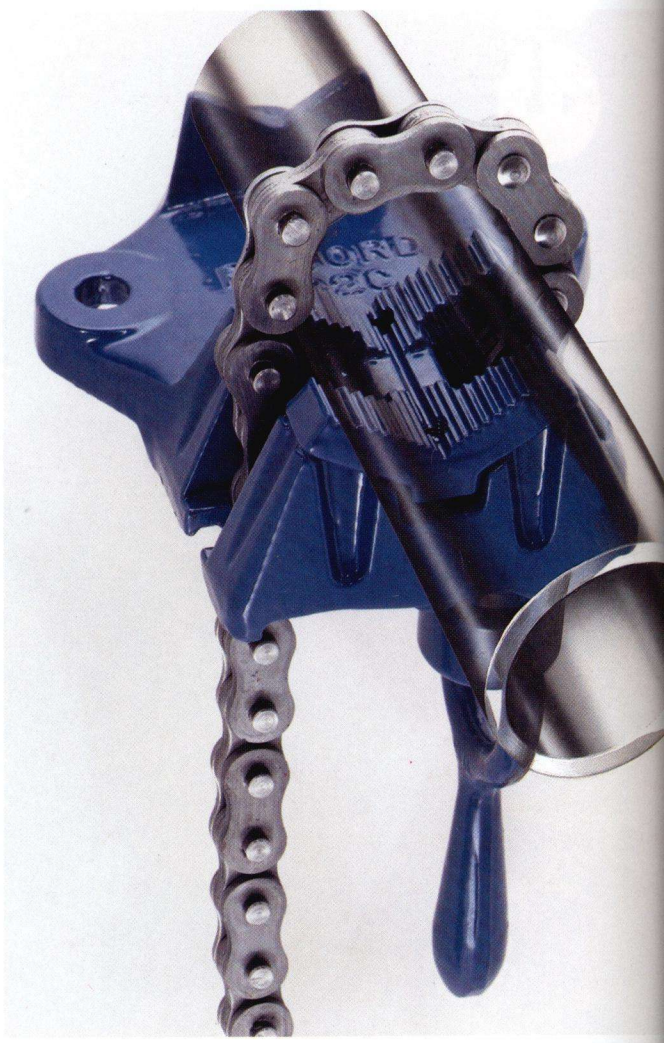
Chain Pipe Vices

If the main feature of the hinged vice is speed of operation, the feature which distinguishes the chain vice is a very powerful grip. The pipe rests on a 'V' formed by two sets of drop forged steel jaws.

The high tensile steel chain is then looped over the pipe, locked into a slot between the jaws and tensioned by a handle and screw; a strong rigid three-point location which renders the pipe almost immovable

Compact and easy to store away. Cast from SG ductile iron and guaranteed unbreakable.

Cat No.	Pipe capacity		Approx weight	
	Nom bore mm	o.d. in	lb	kg
181C	60	1/8-2	4	1.8
182C	115	1/4-4	10.1/2	4.7
183C	220	1/2-8	26	12.3



ripod Stands

The basic tripod stand (TS10) is a fabricated steel frame mounted by a heavy gauge mounting plate which is drilled to accept range of chain and hinged pipe vices shown in the table below. talworking vices No. 1–3 and 100 can also be fitted. The stand tures a hinged tray, for odds and ends, and a fold down platform so t the operator has a firm foothold and can add his own weight to the nd, creating a very stable work station for heavy on site jobs. All cord tripod stands fold flat for easy transport.

Cat No.	Approx weight		Suitable for pipe vices
	lb	kg	
582	56	25.4	Chain pipe vice 182C
592	49	22.2	Hinged pipe vice 92C
592.1/2	57	25.9	Hinged pipe vice 92.1/2C
TS10	39	18.0	182C, 92C, 92.1/2C

pipe benders

Record have been making bending machines for over twenty years.
The original design has been gradually refined and improved by a group of specialist consultants whose skill and experience in the art of pipe bending is second to none.
We call them customers.
Heating and maintenance engineers, plumbers, gas fitters, electricians highlighting problems, making suggestions, providing ideas, helping us to develop this outstanding range of Record pipe benders.
If you spend all day on a building site and all night in the back of a lorry you probably wouldn't work very well. But that is exactly the sort of treatment some bending machines have to withstand. That's why we construct them from welded steel and make sure that every component is engineered and stressed to work smoothly in spite of a few hard knocks.
Along with quality we also give you choice. If you bend nothing but conduit and medium gauge steel, we make a machine specifically tailored to your needs; if you bend everything from 1/2" stainless to 42 mm copper, we make the Universal 223 - the most adaptable compression bender on the market.

CONTINUED

BAHCO RECORD TOOLS
Separate guides MUST be used for: Light Gauge Copper & Stainless Steel. Adjust roller to press on guide setting piece. Back off: 2 divisions for Copper, 3 divisions for Stainless Steel. Reverse guide before commencing bend.
RECORD 63A

Because pipe bending is not the easiest skill to master, we design our machines to be user friendly. In simple terms, a bender works by rolling the pipe, under pressure, around a 180 degrees former.

Compressed on the inside of the curve, and stretched on the outside, the pipe has a natural tendency to 'flat' and ripple causing the inexperienced user to expend a lot of time and material in frustrating trials and errors.

The Record Roller Setting System has largely overcome this problem. The loading arm of every Record stand bender carries simple printed instructions linked to a series of datum marks on the edge of the arm. Read off the size and type of material you want to bend, set and lock the roller on the indicated mark and you'll make a perfect bend - first time, every time.
A detailed instruction book is provided with every machine and, for the specialist, a measured bending chart is freely available on request.

Universal Bender UL223

Versatility is the hallmark of this 'top of the range' bender. Features include a single universal roller for all forms of pipe, dual position tube locator for copper or conduit, and an adjustable quadrant for precise repeat bends.

As the table below shows this machine will accept all the most widely used sizes and types of pipe, conduit and even soft steel rod.

User

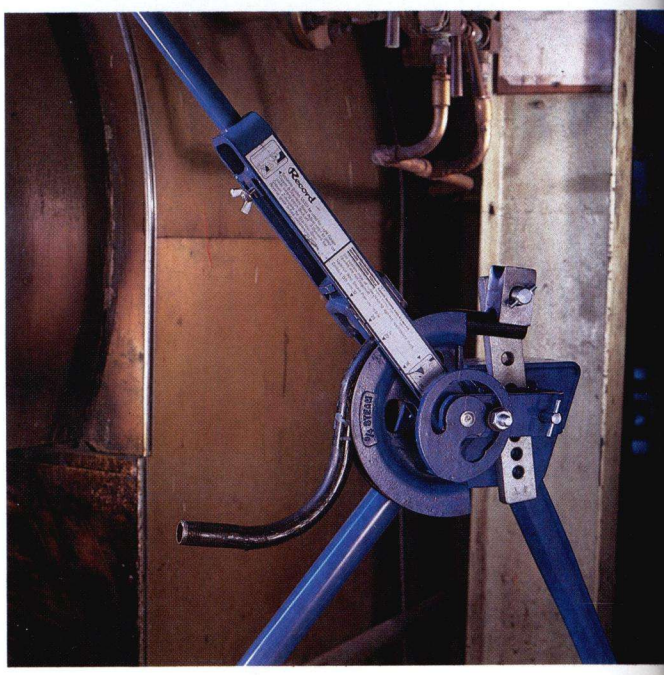
This tool is unique. It has for many years been the most advanced and versatile on the market.

It can be used by a wide range of artisans including heating and ventilation engineers, electricians, plumbers, gas fitters, mechanical maintenance engineers and motor vehicle engineers.

Capacities

Light gauge copper	up to 42 mm o.d. and 1.1/2" nom
Medium gauge copper (annealed)	up to 42 mm o.d. and 1.5/8" o d
Light gauge stainless steel	up to 35 mm o.d. and 1.1/4" nom
Medium gauge steel	up to 32 mm o.d. and 1.1/4" o.d.
Steel conduit (black enamelled)	up to 32 mm o.d. and 1.1/4" o.d.
Steel steam, gas, water pipe (nominal bore - black or galvanised)	up to 3/4" nom.
Soft steel rod	up to 20 mm or 3/4" diameter

o.d. = outside diameter nom = nominal bore



Formers and Guides

When selecting formers and guides for the Record Universa 223 tube and pipe bender please refer to the selection chart or page 42.

Remember the roller of the 223 is suitable for use without guides on medium gauge steel pipe, conduit and soft steel rod

Weight

The 223 machine only 50 lb (22.6 kg)

If optional 92C Pipe Vice is required add suffix 'A' to catalogue number.

The ability to bend large diameter copper tube is easily within t range of the universal bender. Multi adjustment to the tubular legs and feet ensures maximum safety in use.

Copper and Stainless Steel Bender CR223/42

Speed and accuracy have always been a feature of Record nders.

Easy to follow instructions and a fixed tube locator give the erator of this machine confidence and reduces the need for esome re-adjustments.

ser

This special purpose bender is the ideal choice for the dustrial plumber, heating and ventilating engineers, who need produce accurate, ripple-free bends every time.

apacities

ight gauge copper	up to 42 mm o.d. and 1.1/2" nom
Medium gauge copper annealed)	up to 42 mm o.d. and 1.5/8" nom
ight gauge stainless steel	up to 35 mm o.d. and 1.1/4" nom

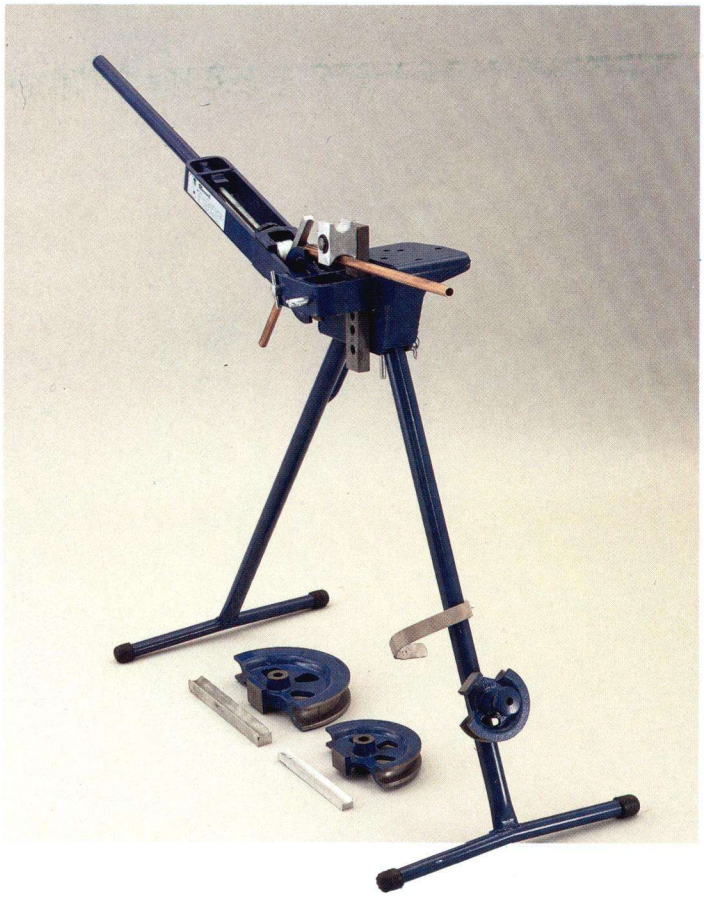
d. = outside diameter nom = nominal bore

ormers and Guides

It is essential that formers and guides are used to prevent amage of the tube by the roller. The patent roller setting device ed in conjunction with the setting piece on the guide ensures ccurate positioning of the roller. This is vital if rippling or cessive throating is to be avoided.

Veight

The machine only 45 lb (20.4 kg)
optional 92C pipe vice is required add suffix 'A' to catalogue mber.



Copper and Stainless Steel Bender CR223/35

This machine is tailored to the needs of the domestic heating engineer and plumber who must bend large quantities of small diameter tube in various locations on the same job.

It is, therefore, lighter than the 223/42 but still strong and stable enough for medium diameter bending when required.

User

The 223/35 bender offers the ideal capacity machine for the domestic heating engineer, plumber and service engineer whose normal requirement is for small diameter tube bending but occasionally needs to bend pipe and tube within the medium diameter range.

Capacities

Light gauge copper	up to 35 mm o.d. and 1.1/2" nom
Medium gauge copper	up to 35 mm o.d. and 1.3/8" nom (annealed)
Light gauge stainless steel	up to 28 mm o.d. and 1" nom

o.d. = outside diameter nom = nominal bore

Formers and Guides

It is essential that formers and guides are used to prevent damage of the tube by the roller. The patent roller setting device used in conjunction with the setting piece on the guide ensures accurate positioning of the roller. This is vital if rippling or excessive throating is to be avoided.

Weight

The machine only 42 lb (19 kg)
If optional 92C pipe vice is required add suffix 'A' to catalogue number.

Conduit and Medium Gauge Steel Tube Bender CT223/32

Specifically for bending conduit and steel water pipe, this machine incorporates a unique roller setting which removes the need for guides without compromising the consistent quality of the bends.

User The obvious immediate choice for the electrician and heating and ventilating engineer who requires a machine specifically designed for bending a wide range of conduit and steel walled pipe.

Capacities

Medium gauge steel	up to 32 mm o.d. and 1.1/2" o.d.
Steel conduit	up to 32 mm o.d. and 1.1/2" o.d. (black enamelled)
Steel steam, gas, water pipe	up to 3/4" nom (black or galvanised)
Soft steel rod up	to 20 mm or 3/4" diameter

o.d. = outside diameter nom = nominal bore

Roller Setting The unique roller of the 223/32 does **not require guides** when bending conduit and thick walled steel pipe. Simply adjust the roller housing against the appropriate datum line on the side of the swivel arm and then complete the bend.

Weight The machine only 45 lb (20.4 kg)
If optional 92C pipe vice is required add suffix 'A' to catalogue number.

Conduit Bender CT223A/32F3

Identical to the CT223/32 this machine is supplied complete with a 92C pipe vice, plus 20, 25 and 32 mm formers.

Conduit and Medium Gauge Steel Bender CT223/25

Last of the closely integrated family of portable Record benders, the 223/25 combines all the virtues of easy mobility, strength, accuracy and rugged dependability for which the Record name is famous.

User Electricians, water and gas service engineers who requir a highly portable machine will select the 223/25. It is compact, easy to carry and quickly put into use.

Capacities

Medium gauge steel	up to 25 mm o.d. and 1" o.d.
Steel conduit	up to 25 mm o.d. and 1" o.d. (black enamelled)
Soft steel rod	up to 12 mm or 1/2" diameter

o.d. = outside diamete nom = nominal bore

Roller Setting The unique roller of the 223/25 does **not require guides** when bending conduit. Simply adjust the roller housing against the appropriate datum line on the side of the swivel arm and then complete the bend.

Weight The machine only 42 lb (19 kg)
If optional 92C pipe vice is required add suffix 'A' to catalogue number.

Conduit Bender CT223A/25F2

Identical to the CT223/25 this machine is supplied complete with a 92C pipe vice plus 20 and 25 mm formers.

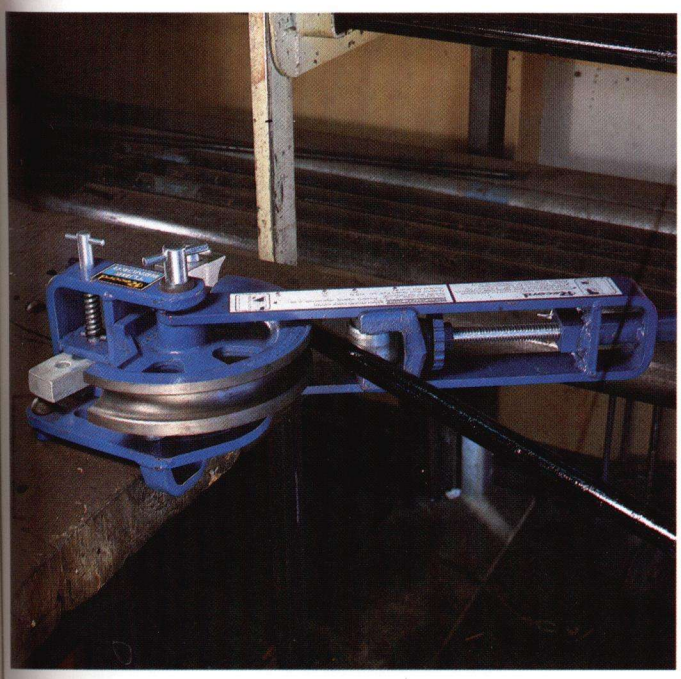
Bench Bender 224

This machine is virtually a Universal UL223 (see page 38) laid on its side and designed for workshop use where numerous tubes and pipes are bent to a standard pattern.

The machine is either bolted to the bench or fixed in a strong vice and can be adapted for left or right-hand loading.

It has the added advantage that unlike a stand bender where the loading arm must be pulled down, the arm on the 224 is pushed with both feet braced on the floor. This extra leverage is useful when bending large diameter or very resistant pipe.

Record 224 bench mounted for right-hand loading of conduit.



User

The choice of the plumber or heating and ventilating engineer who is site based and has the facilities of a workshop available.

Weight

Machine only 32 lb (14.5 kg)

Capacities

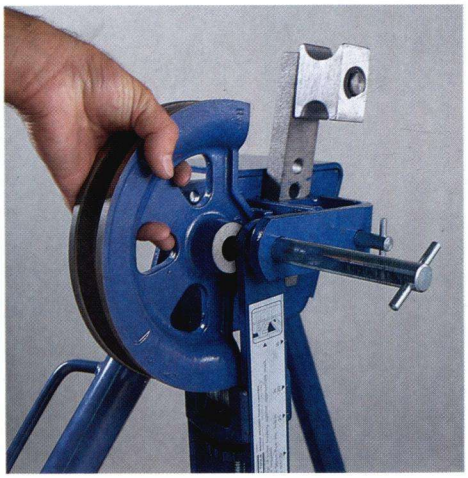
Light gauge copper	up to 42 mm o.d. and 1.1/2" nom
Medium gauge copper	up to 42 mm o.d. and 1.5/8" o.d. (annealed)
Light gauge stainless steel	up to 35 mm o.d. and 1.1/4" nom
Medium gauge steel	up to 32 mm o.d. and 1.1/4" o.d.
Steel conduit (black enamelled)	up to 32 mm o.d. and 1.1/4" o.d.
Steel steam, gas, water pipe (nominal bore - black or galvanised)	up to 3/4" nom
Soft steel rod	up to 20 mm or 3/4" diameter

o.d. = outside diameter nom = nominal bore

Step by Step Operating Guide for the 223 Range of Tube and Pipe Benders

1. To position the stand

Support in the upright position, swing the rear leg to the appropriate position and insert stop pin. The Swivel loading arm is hanging downwards and ready to accept the former.

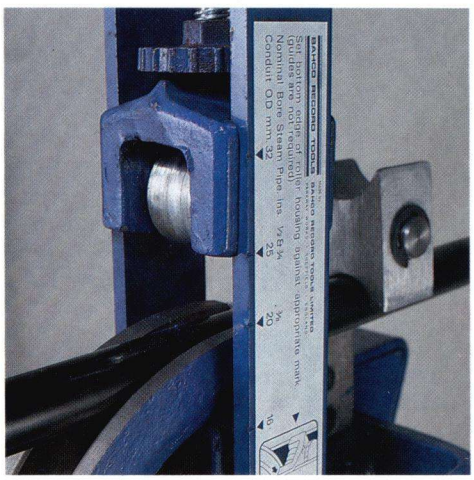


2. Fit former

Partially withdraw the spindle, select and position the former, insert the spindle.

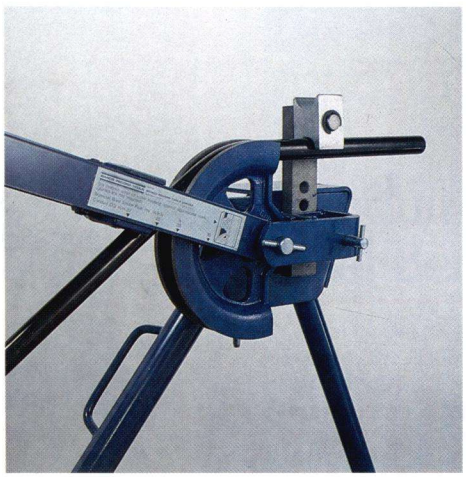
3. Position the tube locator

Swing the swivel loading arm into a vertical position and insert the safety stop pin. Select the appropriate arm and tube locator position. The tube should lay in a horizontal position.



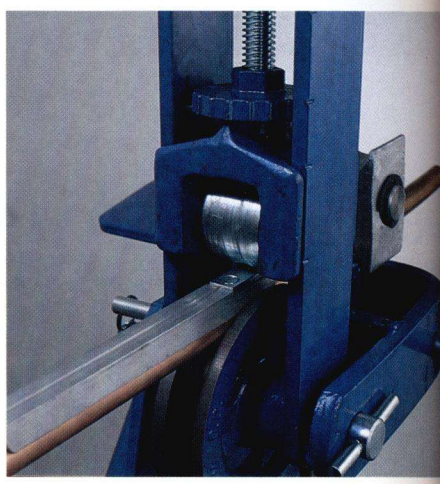
4. Roller setting - conduit and steam pipe

Bottom edge of roller housing is quickly set against appropriate datum mark on the side of the arm.



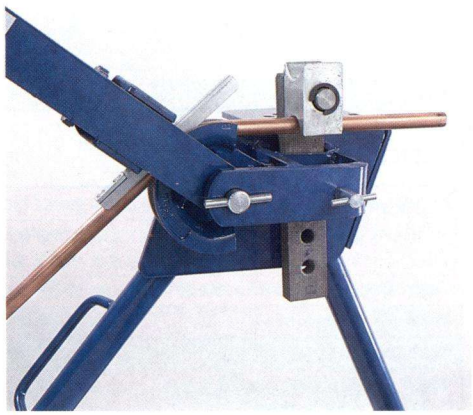
5. Making the bend

An accurate ripple-free bend can be produced up to 180 degrees.



6. Roller setting - copper and stainless steel

Adjust the roller to the guide setting piece - finger tight. Back off the appropriate number divisions displayed on the side arm. Then loc in position.



7. Making the bend

Reverse and reposition the guide with the setting piece at the end furthest from the roller. Dual purpose setting piece acts as stop to prevent overrun.

These operating instructions also apply to the 224 bench bender.

ndividual Formers and Guides - Selection Chart

ormers and Guides selection chart

Formers and guides are not normally supplied with our ending machines. We have a wide selection for many purposes nd it is therefore in your interest to choose what you need rather an paying for items which you may never use.

low to select

Type of material being used is colour coded to the correct hart, material size identifies the correct line, read along the line o select the former or former and guides.

Copper/stainless steel

or use with machines CR223/42. CR223/35

Size	Former	Guide	Inner bend Radius mm	in
1/2" o.d.	F3A1283	G3S1283	44	1.3/4
1/2" n.b.	F3B1521	G3A1521	44	1.3/4
5/8" o.d.	F3C1600	G3S1600	44	1.3/4
3/4"" o.d.	F3E1917	G3S1916	64	2.1/2
3/4" n.b.	F3F2156	G3A2156	76	3
7/8" o.d.	F3G2230	G3S2230	89	3.1/2
1" o.d.	F3H2552	G3S2551	89	3.1/2
1" n.b.	F3K2832	G3A2832	89	3.1/2
1.1/8" o.d.	F3K2870	G3S2870	89	3.1/2
1.1/4" o.d.	F3L3188	G3S3188	102	4
1.1/4" n.b.	F3M3467	G3A3467	114	4.1/2
1.3/8" o.d.	F3M3513	G3A3500	102	4
1.1/2" o.d.	F3M3810	G3A3810	112	4.1/2
1.1/2" n.b.	F3N4102	G3A4102	152	6
1.5/8" o.d.	F3N4140	G3A4140	152	6

Size	Former	Guide	Inner bend Radius mm	in
12 mm o.d.	F3A1212	G3S12121	44	1.3/4
15 mm o.d.	F3B1511	G3A1511	44	1.3/4
22 mm o.d.	F3F2212	G3A2212	76	3
28 mm o.d.	F3K2812	G3A2812	89	3.1/2
35 mm o.d.	F3M3513	G3A3513	102	4
42 mm o.d.	F3N4214	G3A4214	152	6

Former and Guide Sets

Complete with free metal carrying case

CR223/42

Set number	Contents
3FG 220M	15, 22, 28 mm o.d.
4FG 220M	15, 22, 28, 35 mm o.d.
5FG 220M	15, 22, 28, 35, 42 mm o.d.
3FG 220	1/2, 3/4, 1" n.b.
4FG 220	1/2, 3/4, 1, 1.1/4" n.b.
5FG 220	1/2, 3/4, 1, 1.1/4, 1.1/2" n.b.
3FG 225	5/8, 3/4, 1" o.d.
4FG 226	5/8, 3/4, 1, 1.1/4" o.d.

CR223/35

Set number	Contents
3FG 220M	15, 22, 28 mm o.d.
4FG 220M	15, 22, 28, 35 mm o.d.
3FG 220	1/2, 3/4, 1" n.b.
4FG 220	1/2, 3/4, 1, 1.1/4" n.b.

Key to selection

Conduit:
BS4678 Part 1

Copper/stainless steel:
Light gauge copper: BS2871 Parts 1 and 2
Medium gauge copper: BS2871 Annealed and Half Hard
Light gauge stainless steel: BS4127 Part 2

Steel, steam/gas and water pipe:
BS1387 Part 1

o.d.= outside diameter
n.b.= nominal bore

F = Former
F.G.= Former and Guide

Conduit

For use with machines CT223/32, CT223/25

Size	Former	Size	Former	Inner bend Radius mm	in
16 mm o.d.	F3C1612	5/8" o.d.	F3C1600	44	1.3/4
20 mm o.d.	F3E2012	3/4" o.d.	F3E1917	64	2.1/2
25 mm o.d.	F3H2512	1" o.d.	F3H2552	89	3.1/2
32 mm o.d.	F3L3212	1.1/4" o.d.	F3L3188	102	4

Guides not required

Close radius bends

For use with machines CT223/32, CT223/25

Size	Former	Size	Former	Inner bend Radius mm	in
16 mm o.d.	F3P1613	5/8" o.d.	F3P1601	35	1.3/8
20 mm o.d.	F3P2013	3/4" o.d.	F3P1918	35	1.3/8

Guides not required

Steel, steam/gas and water pipe

For use with machines CT223/32

Size	Former	Inner bend Radius mm	in
3/8" n.b.	F3D1752	64	2.1/2
1/2" n.b.	F3F2230	76	3
3/4" n.b.	F3J2743	89	3.1/2

Guides not required

CT223/32

Set number	Contents
3F 225M	16, 20, 25 mm o.d.
4F 226M	16, 20, 25, 32 mm o.d.
3F 225	5/8, 3/4, 1" o.d.
4F 226	5/8, 3/4, 1, 1.1/4" o.d.
3SF 222	3/8, 3/4, 1" o.d.

CT223/25

Set number	Contents
3F 225M	16, 20, 25 mm o.d.
3F 225	5/8, 3/4, 1" o.d.

All formers and guides will fit the UL223 and 224 machines

Handibender 218M

Even if you have never bent a pipe in your life you'll find the 218M very easy to use. Formers, rollers and tube locator are all fixed to bend just two sizes so you don't have to make any adjustments, with a little practice anyone can make smooth, perfect bends, time after time.

The formers, guides and rollers are all cast aluminium and the handles are tubular steel, making the Handibender light, portable and perfect for the room to room working conditions of a plumber or home handyman.

Capacities

Copper	15 mm o.d. and 22 mm o.d.
Stainless steel	15 mm o.d.

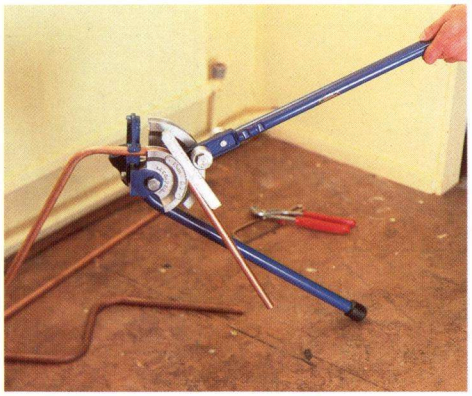
Conversion kits

The standard 218M Handibender can be easily adapted for sizes other than 15 mm and 22 mm o.d by fitting the appropriate former. Conversion kits, listed below, contain both former and guide of the required size. No other modification of the machine is necessary.

Former and guide conversion kit	Size of tube	Description of tube
FG218M 1	1/2" nominal bore	Copper and stainless steel
FG218M 2	3/4" nominal bore	Copper only
FG218M 3	1/2" outside diameter	Copper and stainless steel
FG218M 4	3/4" outside diameter	Copper only

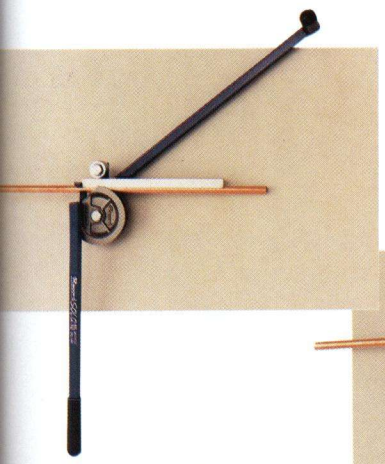
Weight

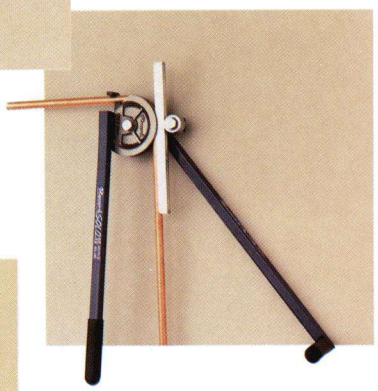
10.1/2 lb (4.7 kg). Display packed in full-colour illustrated carton.
Free-hand bending
Floor support bending
Vice-held bending

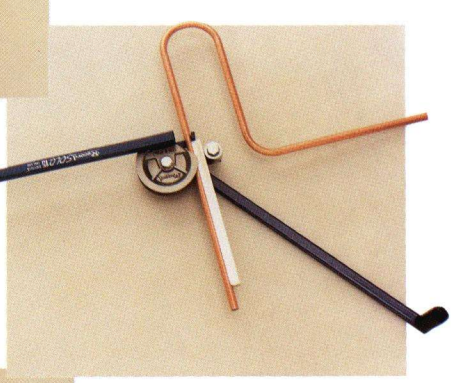


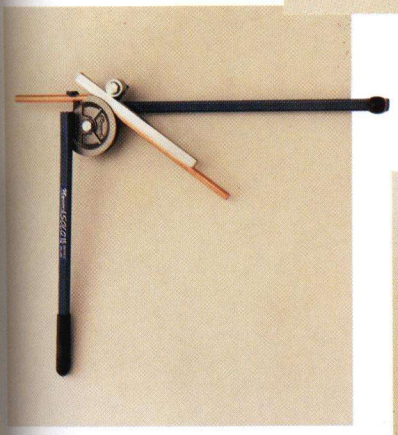
SOLO.15
15 mm Copper Pipe Bender

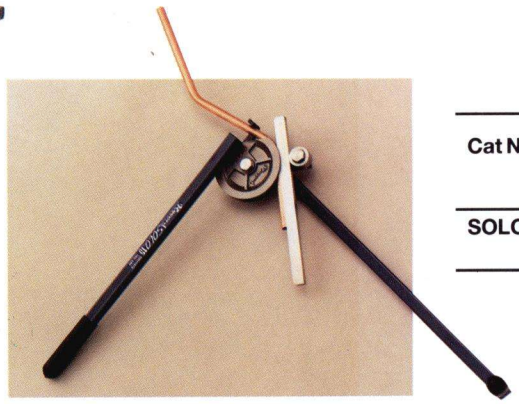
The Record SOLO.15 is simple, sturdy, economically priced and very easy to use. The aluminium former and guide are accurately machined and produce smooth, ripple-free bends up to 180° in one pass. Bending is always preferable to jointing. Cheaper and faster, it also avoids the problem of potential leaks. The SOLO.15 saves time, money and produces professional results even in the hands of a non-professional.

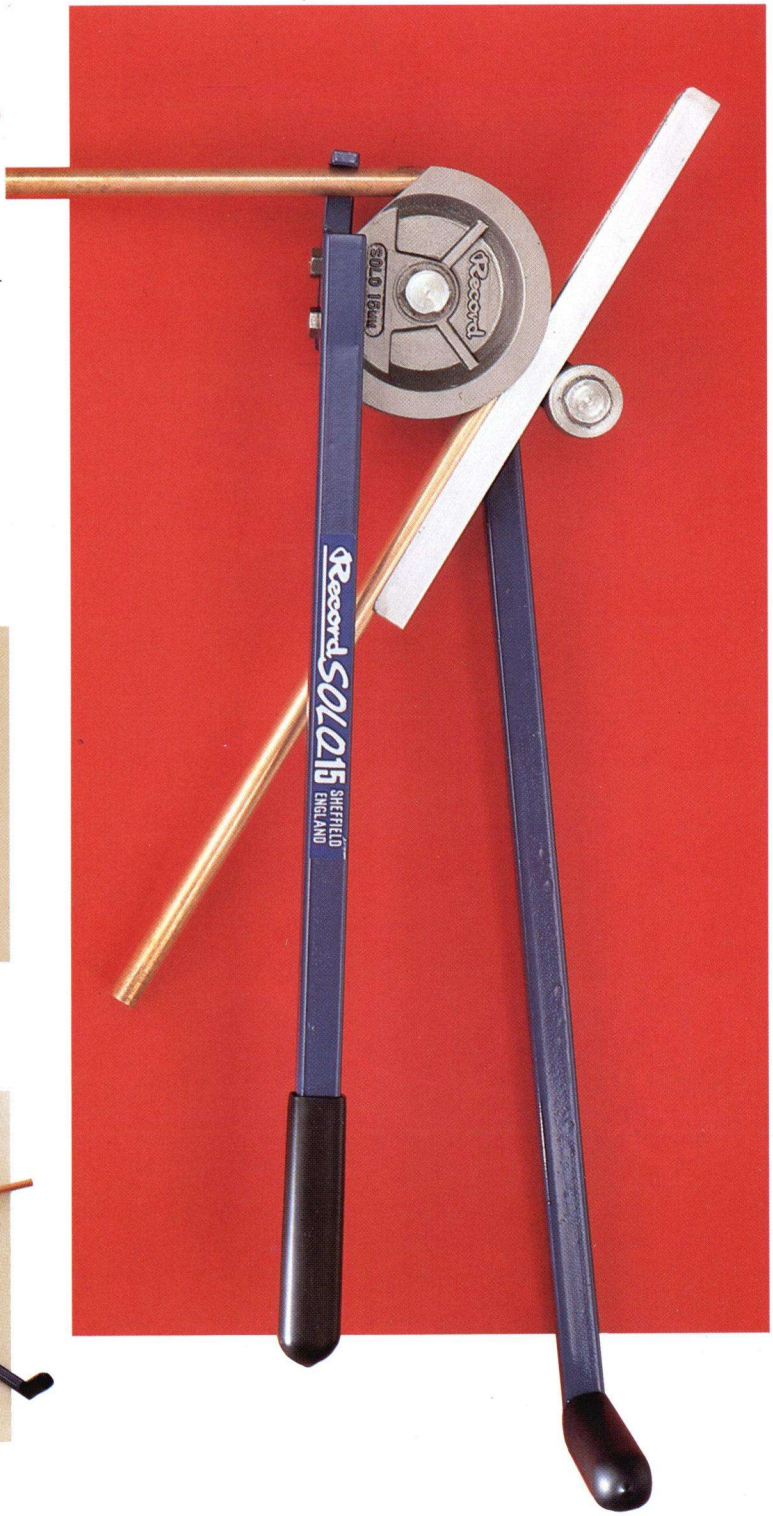




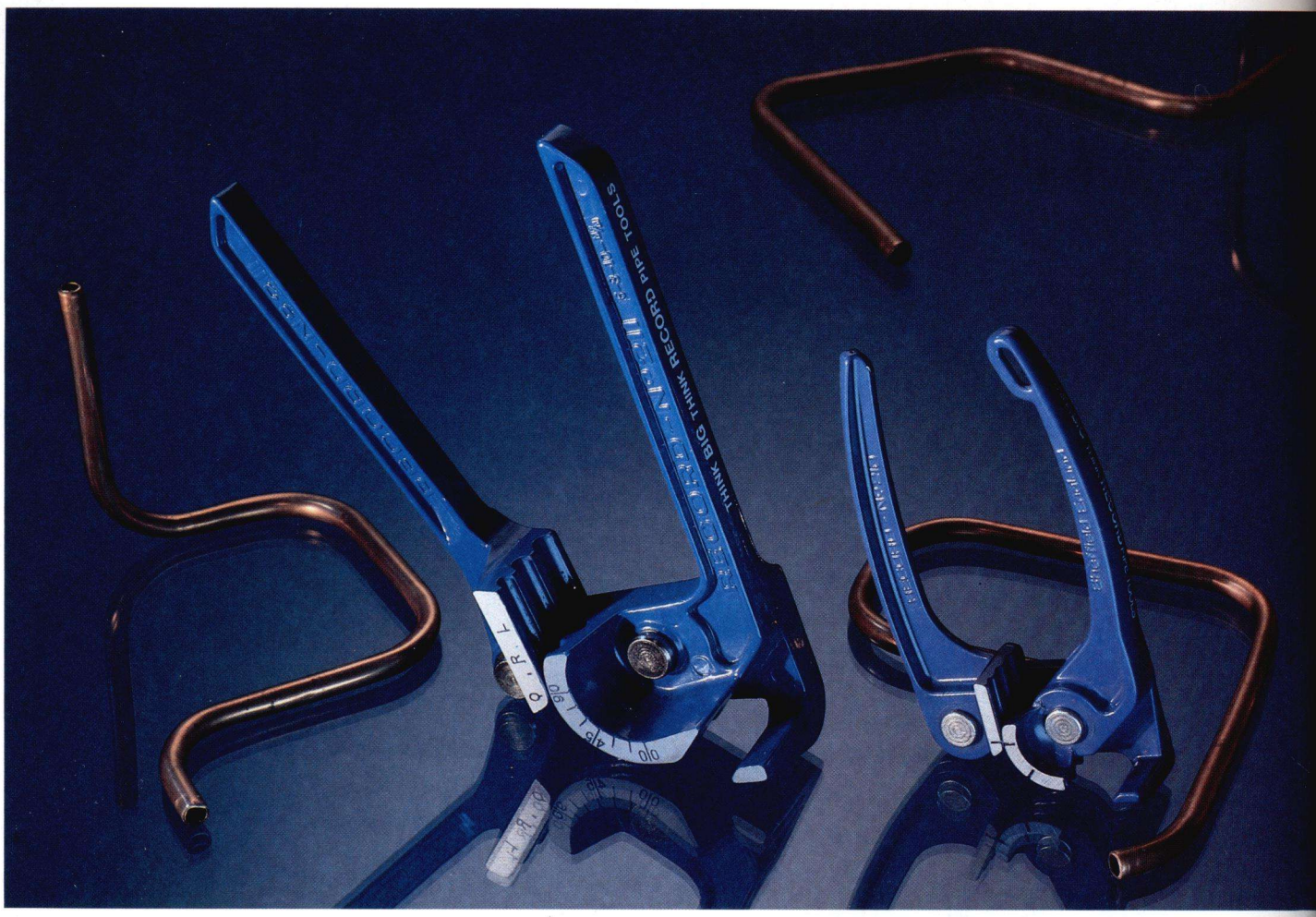






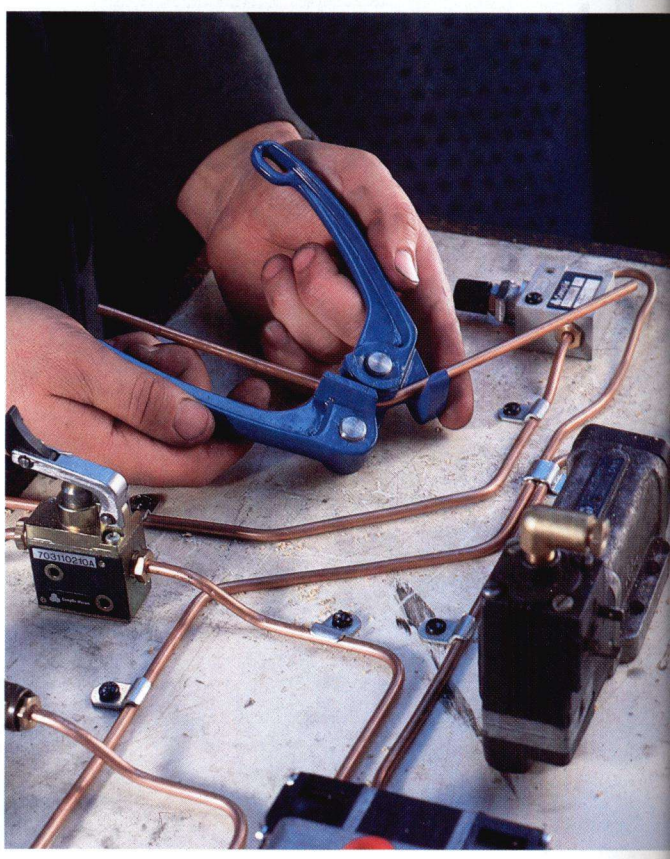


Cat No	Capacity	Overall length		Approx weight	
		in	mm	lb	kg
SOLO.15	15 mm Copper Table X Half Hard	25	635	5.3/4	2.6



Tube Benders

The extensive use of small bore tubing in engineering and domestic environments calls for compact lightweight benders that are easy and accurate to use. The benders shown above are made from strong precision die-castings with integral formers and guides - so there are no loose components to worry about. Each will bend three sizes of copper, brass, aluminium or steel tube.



Mini-Bender 210

Calibrated for 90 degrees and return bends in annealed copper, steel, aluminium and stainless steel.
Capacity 1/8"-3/16"-1/4" o.d. (3-4-6 mm)
Overall length 51/2" (140 mm)

Midi-Bender 211

Ideal for 'microbor' central heating systems. Accurately calibrated for left hand, right hand or offset bends in copper, brass, aluminium or steel.
Capacity 6 mm, 8 mm, and 10 mm o.d.
Overall length 81/2" (218 mm)

power benders

These machines are designed to extend the range of pipe benders in the previous section which rely entirely on muscle power. Manually operated hydraulic and electro hydraulic power benders provide the capacity to bend thick wall pipe to BS1387 up to 6" nominal bore. There are two basic types of power bender: hinged frame and open frame. Both these types of machine can be operated manually or by electric motor. The smallest manual machine will generate 6 tons of bending power with very little effort from the operator while the largest Electro model can produce 27 tons at the touch of a button. In both models oil pressure, generated by hand pump or electric motor, activates a piston which moves the former, bending the pipe between two side jaws. The jaws are fixed by steel pins which locate in holes along the bending frame. Each hole corresponds to a particular size of pipe and is clearly marked. These machines are precision engineered to be reliable and virtually maintenance free. Each is provided ready to use with a carrying case and a set of formers. For pipe straightening or making 180 degree bends we make optional formers and special side jaws. To hold the machine stable at a comfortable working height we recommend the optional tripod stand - almost indispensable if you are moving from site to site.

SAFETY IN USE

To provide the power to bend thick wall steel pipe a relatively high pressure is required within the cylinder. In order to protect both the user and the machine two integrated safety relief valves are built into the machines. The first monitors the pressure within the hydraulic cylinder and is activated when the maximum permissible pressure is reached. The second safety feature is an automatic stroke limiting system which prevents the hydraulic ram being pumped out of the cylinder. Both these systems require no presetting by the operator and are fully automatic.

Manual Hydraulic Benders

3/8″ to 2″ n.b. Dia

The open frame design provides the maximum access to ensure accurate pipe location when producing precision bends. These machines are the obvious choice for the industrial based heating engineer, plumber or pipe bending specialist.

Electro Hydraulic Benders

Fast effortless operation are the major assets of the Electro Hydraulic Bender. The open frame enables accurate bends to be completed easily whilst the inclusion of electric power provides the facility for continuous bending in a production environment.

10 TONS OF POWER AT YOUR FINGERTIPS.

Features and Benefits

* Heavy duty precision ground hydraulic piston for maximum power transfer - fast operation - reduces fatigue.
* Universal U Connector provides fast positive location of hydraulic cylinder to frame - easy to assemble, saves time, safety in operation.
* Precision bending formers with deep pipe wall support - ensures ripple free bends everytime.
* Pipe setting marks clearly indicated on bending frame - ensures fast accurate setting.
* Automatic hydraulic overload system prevents overpressurisation of cylinder- safety in use - prevents damage.
* Full range of formers supplied with machine - ready for immediate use.
* Bench mounting points and location for tripod stand provided in bender frame - versatility in location - safety in use.
* Automatic stroke limiting system prevents hydraulic ram being pumped out of cylinder - safety in use.
* Carrying case provided for bender and formers - improves security.

FIVE TIMES AS FAST A MANUAL BENDING. 3 MODELS IN RANG

Standard Specification

Cat. No.	Pipe bending capacity	Standard equipment	Ram capacity	Weight
058100	3/8″ to 2″ n.b.	Carrying Case 7 Formers 3/8, 1/2, 3/4, 1, 1.1/4, 1.1/2, 2	10 tons	90kg (198 lbs)

Option – All models available without formers

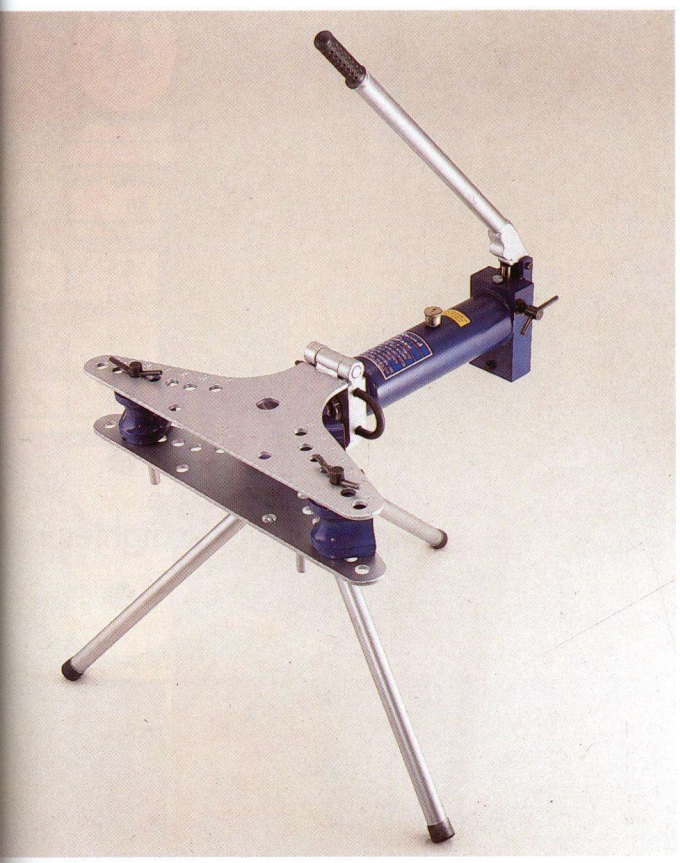
Standard Specification

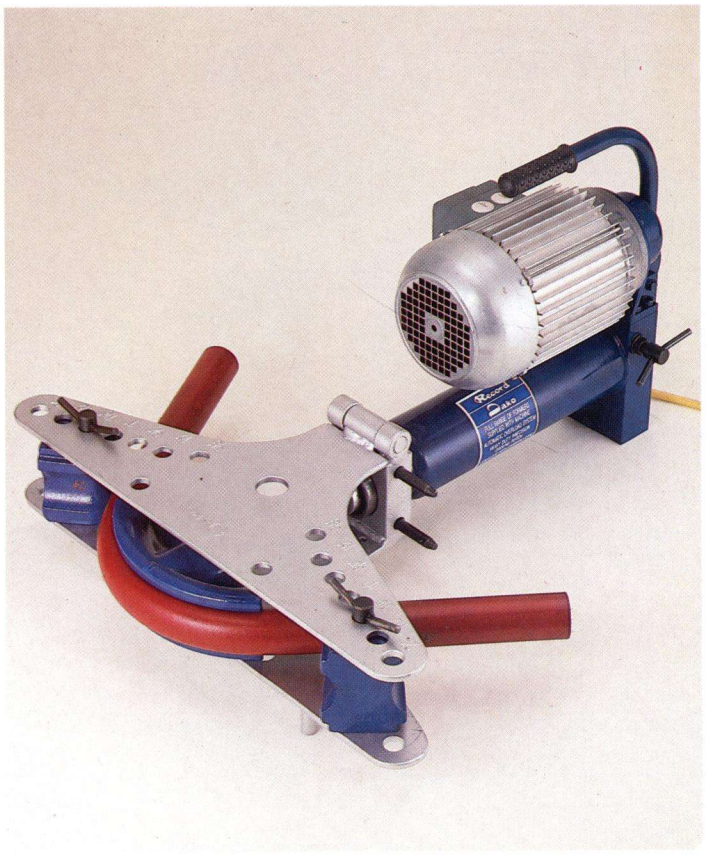
Cat. No.	Voltage	Pipe ending capacity	Standard equipment	Ram capacity	Weigh
058710 **058610** **058510**	1100V 240V 415V	3/8″-2″ n.b.	Carrying Case 7 Formers 3/8, 1/2, 3/4, 1, 1.1/4, 1.1/2, 2	10 tons	123 k (270 lb

Manual Hydraulic Benders

3/8" to 6" n.b. Dia

Electro Hydraulic Benders





High performance, low weight are the benefits of the hinged frame design pipe bender. Ideally suited to the pipe bending professional whose main requirement is for mobility on and off site.

The hinged frame electro hydraulic benders provide the power to bend up to 6" diameter pipe, "cold". A twin hydraulic overload system used on all models provides the protection both to the motor and hydraulic cylinder ensuring that maximum power can be utilised without risk to motor or ram.

Power and precision are two features of the hinged frame design which combine to enable pipe up to 6" diameter to be bent - COLD.

Features and Benefits

POWER & MOBILITY THE 1ST CHOICE OF THE CONTRACTOR. 4 MODELS IN RANGE.

IMMENSE POWER AT THE TOUCH OF A BUTTON. 10 MODELS IN RANGE

* A full set of formers supplied with every machine - ready for immediate use.
* Dual overload safety system protects both the motor and the ram - safety in use - extended product life.
* Automatic stroke limiting systems prevents hydraulic ram being pumped out of cylinder - safety in use.
* Bench mounting points and location for tripod stand provided in bender frame - versatility in location - safety in use.
* Pipe setting marks clearly visible on frame - ensures fast accurate pipe location.
* High power low weight ratio is incorporated into hinged frame design highly portable - long life.
* Precision bending formers with deep pipe wall support - ensures ripple free bends everytime.

Standard Specification

Cat. No.	Pipe bending capacity	Standard equipment	Ram capacity	Weight
057100	3/8" to 2" n.b.	Carrying Case 7 Formers	10 tons	80 kg (176 lbs)
0600100	3/8"–3" n.b.	Carrying Case 9 Formers	16 tons	177 kg (389 lbs)
061100	3/8"–4" n.b.	10 Formers	20 tons	740 kg (1628 lbs)
062000	1"–6" n.b.	Formers supplied to order	27 tons	1680 kg (3700 lbs)

Option – All models available without formers

Standard Specification

Cat. No.	Voltage	Pipe bending capacity	Standard equipment	Ram capacity	Weight
057710 057610 057510	110V 240V 415V	3/8"-2" n.b.	Carrying Case 7 Formers	10 tons	150 kg (330 lbs)
060710 060610 060510	110V 240V 415V	3/8"-3" n.b.	Carrying Case 9 Formers	16 tons	207 kg (455 lbs)
061710 061610 061510	110V 240V 415V	3/8"-4" n.b.	Carrying Case 10 Formers	20 tons	770 kg (1694 lbs)
062710	415V	1"-6" n.b.	Formers supplied to order	27 tons	1705 kg (3751 lbs)

Formers and Accessories

Gas Water & Steam Pipe

Cat. No.	To fit bender	Nom bore size (in)	Bend radius mm	Weight kg	Weight lbs
063 103	1.1/4"-4"	3/8	45	0.95	2.09
063 105	models	1/2	50	1.30	2.86
063 107		3/4	65	2.20	4.84
063 110	1.1/4"-6"	1	90	2.30	5.06
063 112	models	1.1/4	115	2.40	5.28
063 115	2"-6"	1.1/2	140	5.60	12.32
063120	models	2	200	7.20	15.84
063 125	3"-6"	2.1/2	320	25.00	55.00
063 130	models	3	380	40.00	88.00
063 131	4"-6"	3	600	90.00	198.00
063 135	models	3.1/2	750	120.00	264.00
063 140		4	900	150.00	330.00
063 150	6""	5	1100	225.00	495.00
063 160	models	6	1250	380.00	836.00

Boiler Pipes

Cat. No.	To fit bender	Outside dia. size (mm)	Bend radius mm	Weight kg	Weight lbs
064 025	1.1/4"-3"	25	115	3.1	6.82
064 030	models	30	140	4.2	9.24
064 032		32	140	7.1	15.62
064 038		38	170	8.2	18.04
064 044	2"-3"	44.5	190	11.1	24.42
064 048	models	48.3	220	14.6	32.12
064 051		51	220	14.2	31.24
064 057		57	250	23.0	50.60
064 060	3"	60.3	270	29.8	65.56
064 063	models	63.5	270	36.6	80.52
064 070		70	315	25.2	55.44
064 076		76	420	45.0	99.00

180° Special Side Jaws

Cat. No.	To fit bender	Bending frame type	Weight kg (pair)	Weight lbs (pair)
063 401	2" models	hinged frame	14.5	31.90
063 402		Open frame	13.5	29.70
063 403	3" models	hinged frame	15.0	33.00

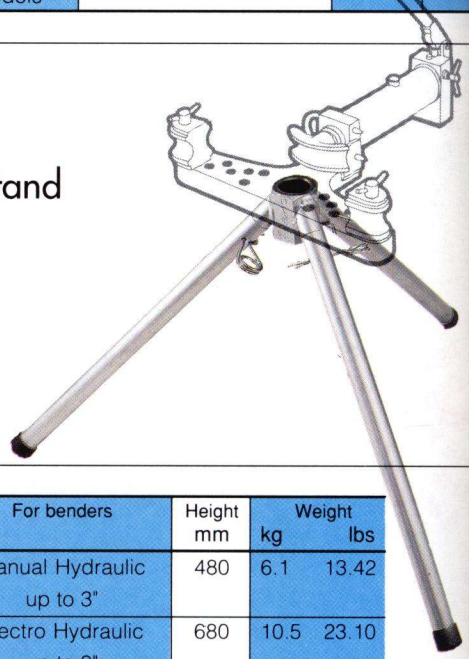
180° Bending of Gas Water & Steam Pipe

Cat. No.	To fit bender	Nom bore size (in)	Bend radius mm	Weight kg	Weight lb
063 303		3/8	130	13.0	28.6
063 305		1/2	130	12.5	27.5
063 307	2"-3"	3/4	130	12.0	26.4
063 310	models	1	130	11.0	24.2
063 312		1.1/4	130	10.5	23.1
063 315		1.1/2	140	12.5	27.5

Pipe Straightening

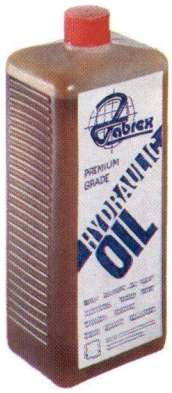
Cat. No.	To fit bender	For straightening pipes (in)	Weight kg	Weight lb
050 129	1.1/4"-3" models	3/8"-3"	1.7	3.7
050 130	1.1/4"-3" models	3/8"-4"	2.5	5.5

Tripod Stand



Cat. No.	For benders	Height mm	Weight kg	Weight lbs
068 000	Manual Hydraulic up to 3"	480	6.1	13.42
068 001	Electro Hydraulic up to 3"	680	10.5	23.10

Hydraulic Oil



Cat. No.	Qty
069000	1 litre

threading machines

Many features combine to make a good threading machine. Some are obvious, others are not.

You will appreciate how quiet our condenser motor machines are when you have to work at night or in a busy hospital during a normal working day.

Sometimes the choice will be for no nonsense power which automatically senses the torque requirement for cutting and threading.

With Record both these choices and many more are available within the most comprehensive range of machines available on the UK market.

If you have to move the machine from site to site you'll be glad of our fully enclosed cutting oil tank and the cast aluminium body which makes the machines more portable than many others on the market. When threading pipe the most important requirement is the consistent production of a quality thread with the minimum of fuss. With the triple filter oil system supplying clean oil automatically through the Die Head to the cutting point you will produce quality threads "day in - day out" with the minimum amount of effort.

Even if you have never used a threader before you will find threading, de-burring and cutting a simple series of operations which is quickly mastered.

One of the most important benefits of buying a Record Threading Machine is that you buy a complete package which includes:

* Pipe Cutter
* De-burrer
* Die Head/s
* Cutting Dies
* Cutting Oil
* Bearing Oil
* Portable Stand or legs
* Waterproof cover
* Boxed Tool Kit - screwdriver, allen keys, adjustable wrench
* Comprehensive Operation Manual

In addition a wide range of special dies, die-heads and other accessories are available from stock.
If you would like a demonstration or help in choosing the correct machine please contact our Parkway Sales Offices (0742) 449066.

Selection Chart

MACHINE SPECIFICATION					OPTIONAL DIE HEADS AND DIES			
Pipe Size	Model Number	Type	Die Head	Voltage 50Hz AC(V)	Stainless Steel Pipe	For Bevelling	For Bolts	1/4"-3/8" BSPT NPT
1/4"-2"	N50A	MANUAL OR AUTOMATIC OPENING	Manual 1/2"-2"	110 or 220	1/2"-2"(HSS)	1/2"-2"	Manual Opening BSW 5/16"-1.1/4" Metric Coarse 8-52 UNC 5/16"-2" UNF 5/16"-1.1/2"	Manual Opening for NPT or BSPT
	N50AV		Uni-Auto V 1/2"-2"					
1/4"-3"	N80A		Manual 1/2"-2" 2.1/2"-3"		1/2"-3"(HSS)	1/2"-3"		
1/4"-3"	N80AV		Unit-Auto V 1/2"-2" Manual 2.1/2"-3"		1/2"-3"(HSS)	1/2"-3"		
1/4"-4"	N100A	PROFILING	Uni-Auto V 1/2"-2" Profiling 2.1/2"-4"	110/220 Dual Voltage	1/2"-4"(HSS)	1/2"-4"		
2.1/2"-6"	150A		Profiling 2.1/2"-4" 5"-6"		2.1/2"-6" (HSS)	2.1/2"-6"		

1/2″–2″ n.b. pipes

FAST - THREADS A 2" PIPE IN JUST 25 SECONDS

The compact lightweight body of the N50A combines high performance with maximum versatility. Ideal when it is necessary to thread pipe in many different locations - on site, repair work in factories, installation for domestic use and high rise construction.

The manual die head puts the operator in total control. When the required thread length is reached, by simply lifting the eccentric handle smoothly upwards the dies will automatically disengage from the threaded pipe creating a perfect fitting

Machine Specification

Threading Capacity	1/4"-2"
Motor	Single phase 600W Series Motor
Voltage	110V or 220V
Rotation Speed	40 r.p.m. (unloaded)
Dimensions	590 (L) x 375 (W) x 395 (H) mm
Nett Weight	43 kg (95 lbs)

Standard Equipment

Description	Cat. No.
Manual Die Head 1/2"-1.1/2"	290020
Dies 1/2" - 3/4" BSPT	161407
1" - 2" BSPT	16K030
Thread Cutting Oil & Bearing Oil	
Waterproof Machine Cover	
Pipe Cutter and Deburring Tool	
Tool Kit - 4 Allen Keys and Screwdriver	
Spare Set of Auto Stop Carbon Brushes	
3 Leg Stand	

N80AV

1/2"–3" n.b. pipes

POWERFUL THREADING CAPACITY AT HIGH POWER TO WEIGHT RATIO.

Machine Specification

Threading Capacity	1/4"-3"
Motor	Single phase 700W Series Motor
Voltage	110V or 220V
Rotation Speed	31 r.p.m. (unloaded)
Dimensions	756 (L) x 475 (W) x 400 (H) mm
Nett Weight	59 kg (131 lbs)

Standard Equipment

Description	Cat. No.
Uni-Auto V Die Head 1/2" - 2"	292820
Manual Die Heads 2.1/2" - 3"	290030
Dies 1/2" - 3/4" BSPT	161407
1"- 2" BSPT	16K030
2 1/2" - 3" BSPT	161450
Thread Cutting Oil and Bearing Oil	
Waterproof Machine Cover	
Pipe Cutter and Deburring Tool	
Tool Kit - 1 Screwdriver, 5 Allen Keys	
1 Set Carbon Brushes	
3 Leg Stand with Machine Tray	

The **N80AV** combines the features of both Uni Auto V Die Head 1/2" - 2" and manual opening Die Head 2 1/2" - 3" and is supplied with fully automatic thread lubrication and cooling system as standard.

The **N80A** has a manually operated Die Head system which robust and simple in operation. Both the N80AV and N80A are o new designs and are the lightest 3" machines available on the market at 131 lbs (58 Kg).

1/2"–2" n.b. pipes

COMPACT, POWERFUL, SPEEDY - THREADS A 2" PIPE IN JUST 25 SECONDS.

The N50AV is also fitted with the unique automatic Uni-Auto V die head giving optimum versatility - you choose the way the machine can best serve you.

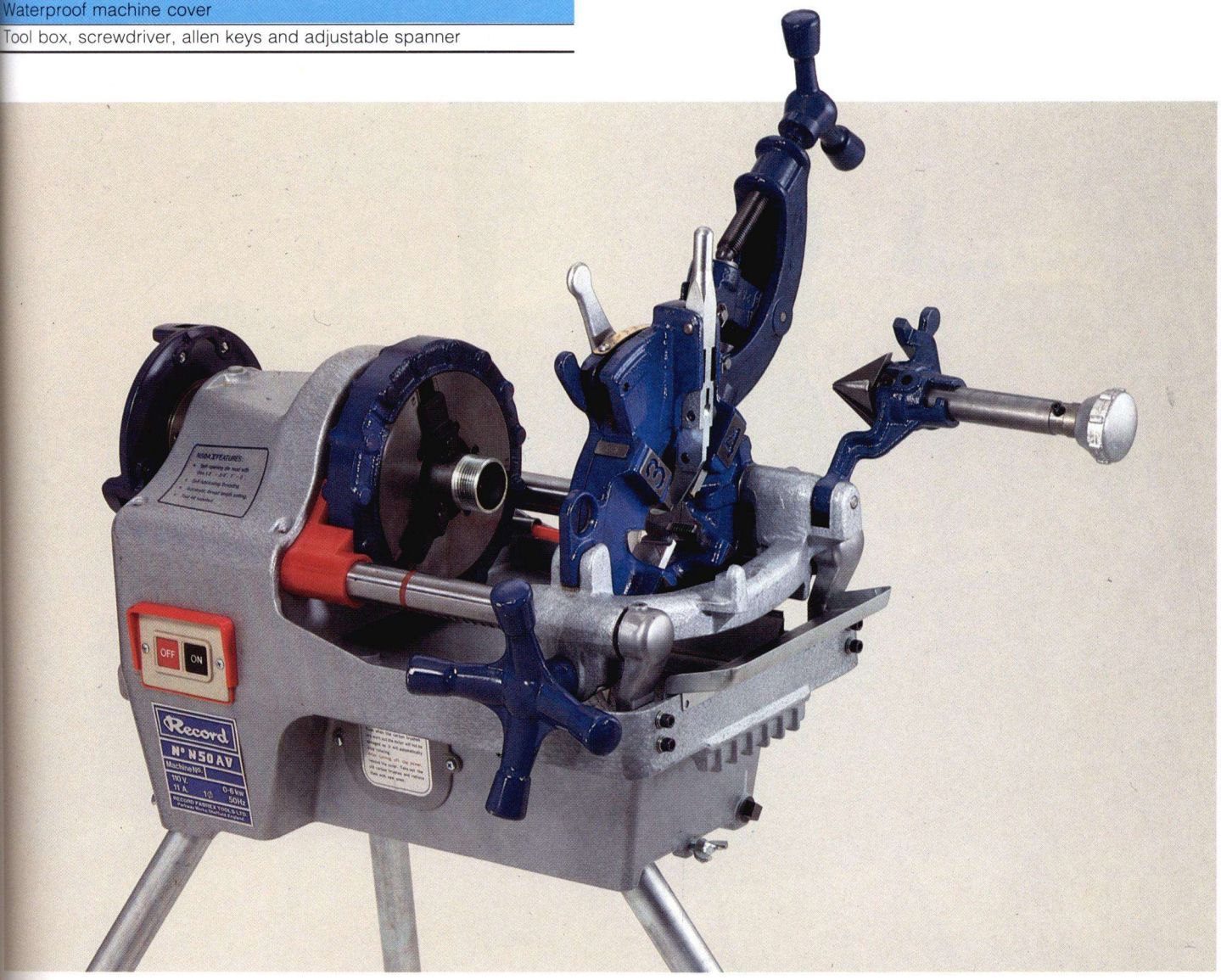
The N50AV incorporates the unique Uni-Auto V Die Head. A feature of this design is the automatic thread length sensing device which automatically opens the dies on completion of the finished thread. Converting to manual operation is simple, just reposition the sensing arm and the die head becomes manual in operation. This enables non standard pipe thread lengths to be produced without changing the die head.

Machine Specification

Threading Capacity	1/4"-2""
Motor	Single phase 600W Series Motor
Voltage	110V or 220V
Rotation Speed	40 r.p.m. (unloaded)
Dimensions	590 (L) x 375 (W) x 395 (H) mm
Nett Weight	43 kg (95 lbs)

Standard Equipment

Description	Cat. No.
1/2" - 2" Uni-Auto V Die Head	292420
Dies 1/2" - 3/4" BSPT	161407
1" - 2" BSPT	16K030
Pipe cutter and deburring tool	
3 Leg stand	
1 spare set of auto stop carbon brushes	
Thread cutting oil and bearing oil	
Waterproof machine cover	
Tool box, screwdriver, allen keys and adjustable spanner	



N100A

1/2″–4″ n.b. pipes

POWERFUL AND EFFICIENT - THREADS A 4″ PIPE IN ONLY 77 SECONDS.

The N100A is equipped with a powerful, low noise 750W Condenser motor which allows it to be the choice for a variety of pipe threading requirements ranging from heavy site construction, oil and gas pipeline work or industrially sited on the mass production of threaded pipe work.

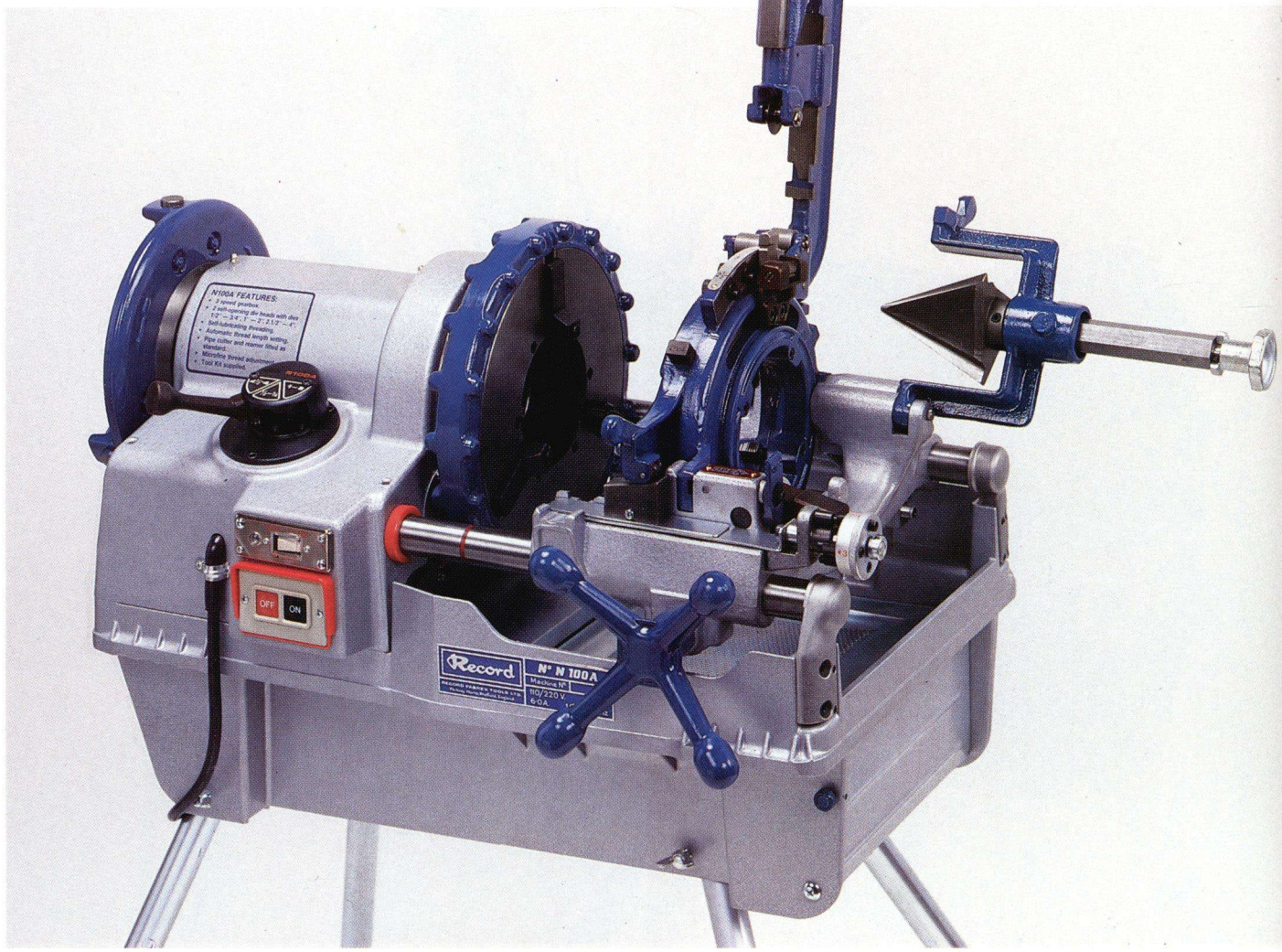
Machine Specification

Threading Capacity	1/4"-4""
Motor	750W Condenser Motor
Voltage	110/220 Dual Voltage
Rotation Speed	48, 27 and 15 r.p.m.
Dimensions	873 (L) x 635 (W) x 568 (H) mm
Nett Weight	123 kg (271 lbs)

Standard Equipment

Description	Cat. No.
1/2″ - 2″ Uni-Auto V	292420
2.1/2" - 4" profiling die head	293040
Dies 1/2" - 3/4" BSPT	161407
1" - 2" BSPT	16K030
2.1/2" - 4" BSPT	162460
Pipe cutter and deburring tool	
4 Leg stand	
Thread cutting oil and bearing oil	
Waterproof machine cover	
Tool box, screwdriver, allen keys, adjustable wrench	

The N100A and 150A feature the internationally patented automatic "profiling" die head for threading 2.1/2″-6″ pipes. In this method an external profiling device interacts with the die head to produce taper threads. Narrow dies (only 20 mm) produce the required thread length with less threading resistance thus reducing power consumption. These die heads also have microfine adjustment of thread diameter – length adjustment is made using the profiling fixture.



150A

2.1/2"–6" n.b. pipes

POWERFUL - THREADS PIPES UP TO 6" IN DIAMETER IN ONE PASS.

A combination of superior design and manufacturing technology has created a 6" capacity machine which is unbeatable in its class. It is the automatic choice for large diameter threading requirements where raw power and total reliability required.

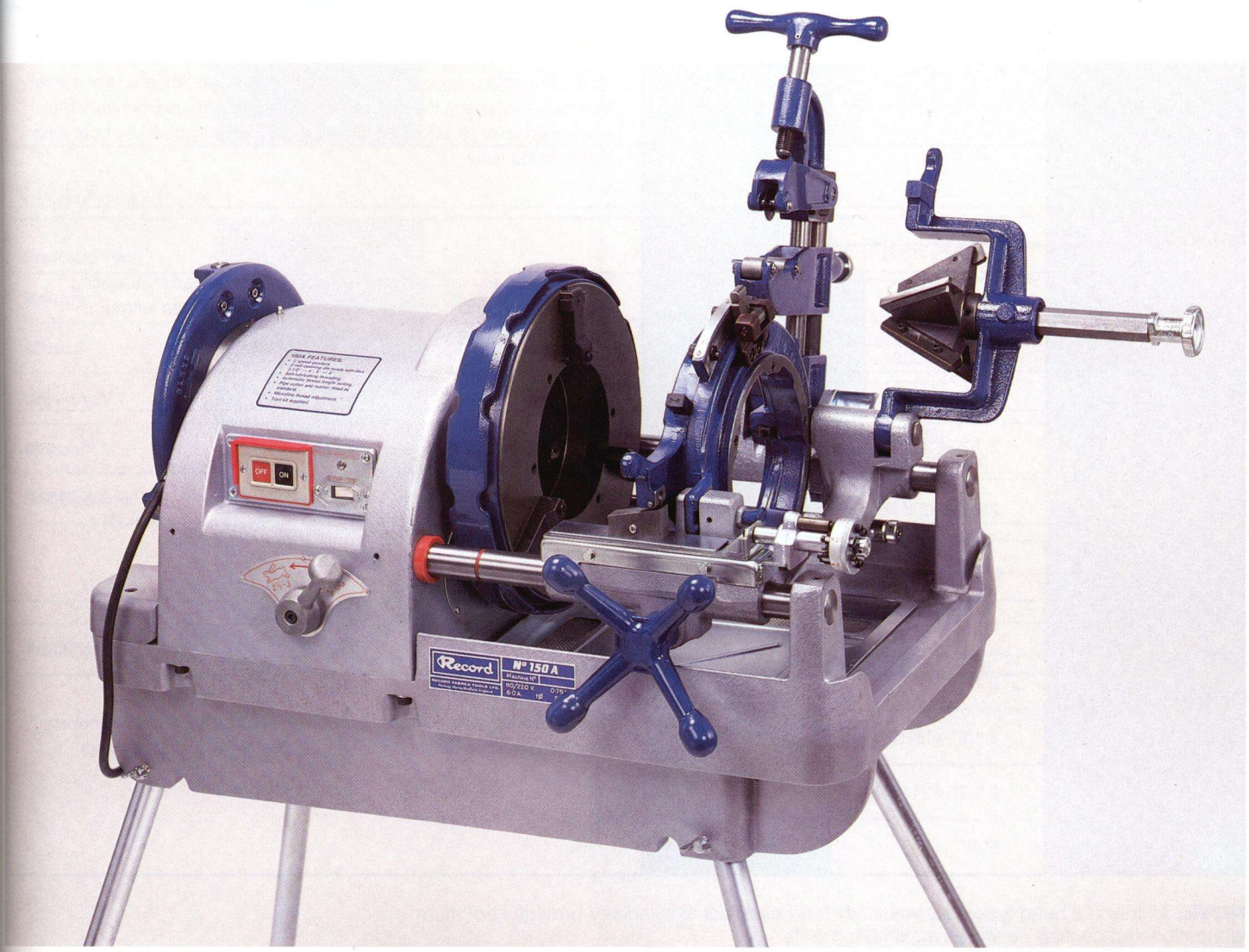
The N100A and 150A feature the internationally patented automatic "profiling" die head for threading 2.1/2"-6" pipes. In this method an external profiling device interacts with the die head to produce taper threads. Narrow dies (only 20 mm) produce the required thread length with less threading resistance thus reducing power consumption. These die heads also have microfine adjustment of thread diameter - length adjustment is made using the profiling fixture.

Machine Specification

Threading Capacity	2.1/2"-6""
Motor	750W Condenser Motor
Voltage	110/220 Dual Voltage
Rotation Speed	22 and 7 r.p.m.
Dimensions	930 (L) x 670 (W) x 590 (H) mm
Nett Weight	170 kg (374 lbs)

Standard Equipment

Description	Cat. No.
2.1/2"-4" profiling die head	291045
5"-6" profiling die head	291065
Dies 2.1/2" - 4" BSPT	162460
5"-6" BSPT	162470
Pipe cutter and deburring tool	
4 Leg stand	
Thread cutting oil and bearing oil	
Waterproof machine cover	
Tool box, screwdriver, allen keys, adjustable wrench	



Threading Machine Die Heads

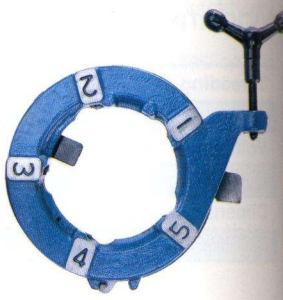
Our extensive range of die heads are, with the exception of the more specialised profiling type, totally interchangeable from machine to machine. All die heads are available as optional extras providing maximum user versatility.

Automatic Profiling

Manual

Uni-Auto V

Self Opening



Bevelling/Grooving

Die Head Type	Die Head Size	Die Width mm	Feature
Manual	1/4"-3/8"	23	The simplest die head in the range with thread length determined by the operator. To stop threading, the dies are opened by manually operating the eccentric handle.
	1/2"-1.1/2"	27	
	1/2"-2"	27	
	2.1/2"-3 "	27	
Uni-Auto V	1/2"-1.1/2"	27	The Uni-Auto V can be used as either a manual or automatic die head. When threading reaches the predetermined length the auto-open lever automatically opens the dies to stop threading. To use manually the auto-open lever is repositioned and threading is stopped by operating the opening lever.
	1/2"-2"	27	
Self Opening	1/2"-3/4"	27	This die head as well as being self-opening has a facility enabling microfine adjustment of the thread diameter and thread length. Precision threading made easy.
	1"-2"	38	
	21/2"-3"	38	
Automatic Profiling	2.1/2"-4" (N100A)	20	An external profiling device interacts with the die head to produce the taper thread. Narrow dies produce less threading resistance thereby reducing power consumption. Microfine thread adjustment also featured.
	2.1/2"-4" (150A)	20	
	5"-6"	20	
Bevelling & Grooving	1/2"-2"	–	This range of Bevelling & Grooving die heads enable the standard machines to produce weld preparation (bevelling) & mechanical joints (grooving).
	2.1/2"-3"	–	
	2.1/2"-4" (N100A)	–	
	2.1/2"-4" (150A)	–	
	5"-6"	–	

NOTE: All four die head types automatically feed oil direct to the dies - provides optimum lubrication and cooling - ensures maximum die life.

Die Selection Chart

How to select: When BSPT and NPT Dies are required refer to the Blue Colour coded charts below:

N50A/N50AV (1/4″-2″)

Die Head Type	Capacity Inches	Cat. No.		Dies	
			Size Inches	BSPT (Cat. No.)	NPT (Cat. No.)
Manual	1/4-3/8	290000	1/4-3/8	160003 166003 (HSS)	160303 166303 (HSS)
Manual	1/2-2	290020	1/2-3/4	161407 166007 (HSS)	161307 166307 (HSS)
Uni Auto V	1/2-2	292420	1-2	16K030 16K230 (HSS)	16K330 16K430 (HSS)
Self Opening	1/2-3/4	292010	1/2-3/4	161407 166007 (HSS)	161307 166307 (HSS)
	1-2	292020	1-2	16B430 16E030 (HSS)	16B030 1 16E330 (HSS)

N80A/N80AV (1/4″-3″)

Die Head Type	Capacity Inches	Cat. No.		Dies	
			Size Inches	BSPT (Cat. No.)	NPT (Cat. No.)
Manual	1/4-3/8	290000	1/4-3/8	160003 166003 (HSS)	160303 166303 (HSS)
Manual	1/2-2	290020	1/2-3/4	161407 166007 (HSS)	161307 166307 (HSS)
Uni-Auto V	1/2-2	292420	1-2	16K030 16K230 (HSS)	16K330 16K430 (HSS)
Manual	2.1/2-3	290030	2.1/2-3	161450 166050 (HSS)	161350 166350 (HSS)
Self Opening	1/2-3/4	292010	1/2-3/4	161407 166007 (HSS)	161307 166307 (HSS)
	1-2	292020	1-2	16B430 16E030 (HSS)	16B030 16E330 (HSS)
	2.1/2-3	292030	2.1/2-3	16B450 16E050 (HSS)	-

N100A (1/4″-4″)

Die Head Type	Capacity Inches	Cat. No.		Dies	
			Size Inches	BSPT (Cat. No.)	NPT (Cat. No.)
Manual	1/4-3/8	290000	1/4-3/8	160003 166003(HSS)	160303 166303(HSS)
Manual	1/2-2	290020	1/2-3/4	161407 166007(HSS)	161307 166307(HSS)
Uni-Auto V	1/2-2	292420	1-2	16K030 16K230(HSS)	16K330 16K430(HSS)
Manual	2.1/2-3	292010	2.1/2-3″	161450 166050(HSS)	161350 166350
Self Opening	1/2-3/4	292030	1/2-3/4	161407 166007(HSS)	161307 166307(HSS)
	1-2	292020	1-2	16B430 16E030(HSS)	16B030 16E330(HSS)
	2.1/2-3	292030	2.1/2-3	16E450 16E050(HSS)	– –
Profiling	2.1/2-4	293040	2.1/2-4	162460 16C060(HSS)	162360 16C360(HSS)

Die Selection Chart

150A (2.1/2″-6″)

Die Head Type	Capacity Inches	Cat. No	Size Inches	Dies BSPT (Cat. No.)	Dies NPT (Cat. No.)
Profiling	2.1/2-4	291045	2.1/2-4	162460 16C060 (HSS)	162360 16C360 (HSS)
	5-6	291065	5-6	162470 16C070 (HSS)	162370 16C370 (HSS)

How to select: When Bolt Dies are required refer to the Green Colour coded charts below

British Standard Whitworth (BSW)

Die Head Type	Cat. No.	Dies Size In.	Dies Cat. No.	To Fit Models
Manual	290000	5/16	160502	N50A, N50AV, N80A, N80AV, N100A
		3/8	160503	
		7/16	160504	
		1/2	160505	
		5/8	160506	
		3/4	160507	
		7/8	160508	
Manual	290010	1	160509	
		1.1/4	160510	

Metric Coarse Screw Thread

Die Head Type	Cat. No.	Dies Size In.	Dies Cat. No.	To Fit Models
Manual	29002A	M8	167702	N50A, N50AV, N80A, N80AV, N100A
		10	167703	
		12	167705	
		14-16	167706	
		18-22	167707	
		24-27	167709	
		30-33	16770A	
		36-39	16770B	
		42-45	16770C	
		48-52	16770D	N50A, N50AV, N80A, N80AV, N100A

Unified Coarse Screw Thread (UNC)

Die Head Type	Cat. No.	Dies Size In.	Dies Cat. No.	To Fit Models
Manual	29001B	5/16	167502	N50A, N50AV, N80A, N80AV, N100A
		3/8	167503	
		7/16	167504	
		1/2	167505	
		5/8	167506	
		3/4	167507	
		7/8	167508	
		1	167509	
		1.1/4	167510	
		1.1/2	167520	N50A, N50AV, N80A, N80AV, N100A
		2	167530	

Unified Fine Screw Thread (UNF)

Die Head Type	Cat. No.	Dies Size In.	Dies Cat. No.	To Fit Models
Manual	29562U	5/16-3/8	16L502	(up to 1.1/4" UNF)
		7/16-1/2	16L505	
		9/16-5/8	16L506	
		3/4	16L507	N50A, N50AV, N80A, N80AV, N100A
		7/8	16L508	
		1-1.1/2	16L520	

How to select: When Bevelling Dies are required refer to the Grey Colour coded charts.

Bevelling

Die Head Type	Cat. No.	Dies Size In.	Dies Cat. No.	To Fit Models
Bevelling Head	292026	1/2"-3/4"	16H707	N50A, N50AV, N80A, N80AV, N100A
			16J707	
		1"-2"	16H730	
			16J730	
	292036	2.1/2"-3"	16H750	N80A, N80AV
			16J750	

Profile Bevelling (For N100A and 150A)

Die Head Type	Cat. No.	Dies Size In.	Dies Cat. No.	To Fit Models
Bevelling Head	293046	2.1/2"-4"	162760	N100A
	291046	2.1/2"-4"	162760	150A
	291066	5"-6"	162770	150A

Threading Machine Accessories

Water Washable Thread Cutting Oil

A high grade mineral oil for thread cutting that can be washed off with water and is, therefore, suitable for use on drinking water installations. The careful selection of high viscosity index mineral oils ensure this cutting oil has inherent low mist characteristics promoting improvements in both machining performance and environmental aspects.

Standard Thread Cutting Oil

Based on a balanced blend of solvent refined mineral oils and fatty esters. Chlorinated and active sulphurised extreme pressure additives provide exceptional anti-weld resistance between pipe and dies – promoting clean thread contours and long die life.

Dies for Stainless Steel

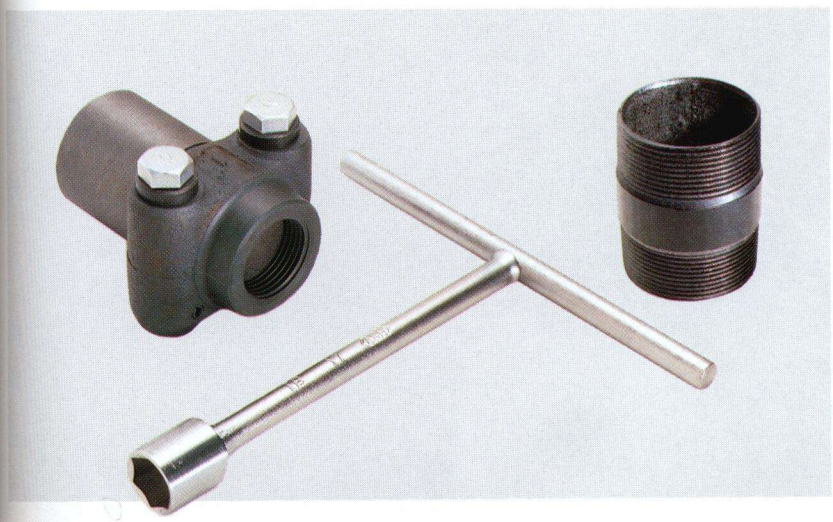
Designed and manufactured in top grade high speed steel specifically for threading pipes made of stainless steel. However, they can equally well be used for threading conventional steel pipes giving unbeatable die life. Available in sizes from 1/4" – 6" BSPT and NPT.

Pipe Supports

While threading long pipes improved stability is obtained by placing the support at a suitable position.

Available in two sizes:

PS1 – for N50A/V, N80AV
PS2 – for N100A, 150A



Nipple Attachments

This simple to use attachment which takes only seconds to fit enables the user to produce pipe nipples – long or short.

Also used to thread the opposite end of threaded short pipes.

Either way, an attachment that saves you money!

Available in 10 sizes 1/2" – 4" BSPT or NPT.

power die stocks

Thread cutting on site or where pipework requires threading in situ was traditionally completed using a manual die stock system. This method although effective is time consuming and difficult for the plumber or heating engineer.

The power die stock was developed to overcome this problem by the simple expedient of using an electric motor to turn the die.

Many of these machines however tend to be heavy and the die heads poorly located, replacing one set of problems with another. Record Power Die Stocks have been designed and developed to eliminate these faults and offer a complete on-site pipe threading system tailored to the needs of the professional user.

Only Record provide die heads which literally 'snap-lock' into the machine. A safe, simple 'fit it and forget it' feature which leaves you free to get on with the job.

Only Record give you the option of automatic die heads which disengage after completing the standard length of thread.

And, only Record offer power, reliability and weight saving construction which make these machines the best of their type on the market.

PDS1.1/4 PDS1.1/4-A

1/2"-1.1/4" nb. pipes

Cuts a 1.1/4" pipe thread in less than 20 seconds.

The Record PDS 1.1/4 Power Die Stock is designed for cutting threads on pipe and rod from 1/8" to 1.1/4" diameter for both left hand and right hand threads.

This machine is ideal for the plumber/heating engineer or factory maintenance engineer who needs the capacity to cut threads on existing pipework installations or in the workshop environment.

Using the combination of the Record PS4 Pipe Saw and PDS1.1/4 all pipework maintenance can be completed without removing the pipe from its location.

Machine Specification

Threading Capacity	1/8"-1.1/4"
Motor	1200W single phase 50/60 Hz
Voltage	110V or 240V
Rotation Speed	40 R.P.M.
Nett Weight	4.5 Kg

Standard Equipment

Description	**Cat. No.**	
PDS1.1/4 Power Die Stock 1200W, 110V or 240V	PDS1.1/4	PDS1.1/4-A
Pipe Clamp 1/8"–1.1/4 capacity	DSA822	
Metal Carrying Case	DSA800	
Standard Die Heads 1/2"	SDH203	ADH213
3/4"	SDH204	ADH214
1"	SDH205	ADH215
1.1/4"	SDH206	ADH216

PDS2 and PDS2-A

For 1/2"-2" nb. pipes

A standard 2" pipe thread can be produced in 25 seconds.

At 5.7 kg the lightest 2" Power Threader in the world. The Record PDS2 Power Die Stock is designed for cutting threads on pipes and rod from 1/2" to 2" diameter for both left hand and right hand threads.

This machine is designed for heating engineers and factory maintenance engineers who require the capacity to thread the full range of popular size of pipe and rod up to 2" diameter.

Its light weight ensures that it can be used in the most confined spaces both overhead and in pipe work trenches.

Double electrical insulation common to all PDS models ensures the safety of the operator at all times.

Machine Specification

Threading Capacity	1/8"-2"
Motor	1200W Single Phase 50/60 Hz
Voltage	110V or 240V
Rotation Speed	33 R.P.M.
Nett Weight	5.7 Kg

Standard Equipment

Description	**Cat. No.**	
PDS2 Power Die Stock 1200W, 110V or 240V	**PDS2**	**PDS2-A**
Pipe Clamp 1/8"–2"	DSA823	
Die Head Adapter for 1/8"–1.1/4" Die Heads	DSA821	
Metal Carrying Case	DSA800	
Standard Die Heads 1/2"	SDH203	ADH213
3/4"	SDH204	ADH214
1"	SDH205	ADH215
1.1/4"	SDH206	ADH216
1.1/2"	SDH207	ADH107
2"	SDH208	ADH108

PDS1.1/4-A
PDS2-A

Automatic Power Die Stock System

The Record PDS Automatic Power Die Stock system brings to the professional user a fully automatic series of self opening die heads which are unique to the U.K.

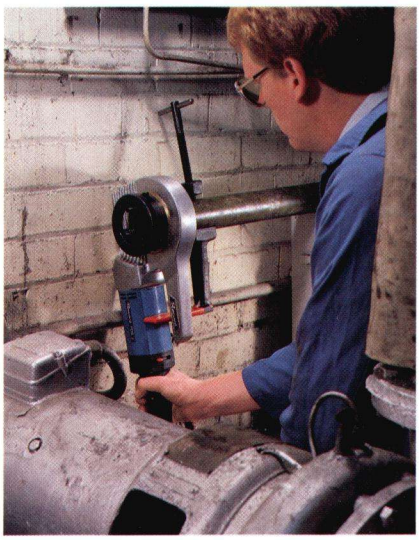
The quick change, positive snap lock location ensures that the die heads are locked into the machine, providing user safety at all times.

The benefit of using a fully automatic system throughout the range of sizes 3/8"-2" BSPT ensures that the British Standard recommended length of thread is reproduced everytime. This is particularly important when installing gas systems and pressure lines.

When the thread is completed the die head automatically opens free of the thread produced and is therefore able to be withdrawn from the pipe work without the need for reverse run back. This saves valuable time reducing motor and die wear by up to 50%.

– pipework maintenance can be completed without removing the pipe from its location.

Using the combination of the Record P4 Pipe Saw and PDS1.1/4 –



PDS32/32D

For electrical conduit 16 – 32 mm diameter

This Record PDS Power Die Stock is designed specifically for the needs of the electrical contractor who requires the speed and flexibility of a hand held power tool which will thread conduit in situ or at the site work bench.

This machine is particularly valuable when large quantities of conduit have to be threaded on site or where large diameter conduit is required in volume.

The PDS 32 carries the full range of die heads including 16, 20, 25 and 32 mm in a purpose built metal carrying case, however if your needs relate only to the popular 20 and 25 mm then we have the PDS 32D which contains just the 20 and 25 mm die heads.

Machine Specification

Threading Capacity	16 mm - 32 mm
Motor	1200W Single Phase 50/60 Hz
Voltage	110V or 240V
Rotation Speed	40 R.P.M.
Nett Weight	4.5 Kg

Standard Equipment PDS32

Description	Cat. No.
PDS32 Power Die Stock 1200W, 110V or 240V	PDS32
Pipe Clamp 16-32 mm capacity	DSA822
Metal Carrying Case	DSA800
Conduit Die Heads 16mm	ODH160
20mm	ODH200
25mm	ODH250
32mm	ODH320

Standard Equipment PDS32D

Description	Cat. No.
Power Die Stock 1200W, 110V or 240V	PDS32D
Pipe Clamp 16-32 mm capacity	DSA822
Metal Carrying Case	DSA800
Conduit Die Heads 20mm	ODH200
25mm	ODH250

Power Die Stock Accessories

Thread Cutting Fluid

Cat. No. AS204 (Aerosol application)
Cat. No. WW200 (Manual pump)

When threading pipe or rod it is necessary to lubricate and cool the dies. Both the AS204 and WW200 cutting fluid is water washable which conforms to the 1986 Water Bylaws Part II therefore combining efficient cooling and lubrication qualities with Health and Safety legislation for water pipe systems. Both methods of application are by pressure jet so the cutting fluid is easily transferred to the pipe or rod in an overhead working position or when the space available is limited.

Die Head Adapter

DSA821 (standard in PDS)

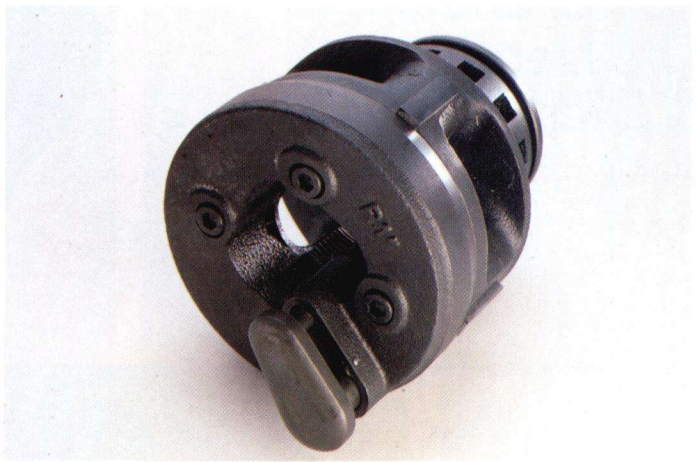
This adapter is included as standard with the PDS2 and is fitted when using 1/8" to 1.1/4" die heads.

Universal Adapter

Spring (optional extra)

Cat. No. DSA819

The Universal Adapter fitted in the drive head of a Record Power Die Stock will accept most other popular makes of die head fitted. These include Rems, Ridgid, Presto and Rothemberger.



Automatic Die Heads

Quick change Snap Lock fully automatic die heads are available covering 3/8" to 2" BSPT. When the threading is completed the dies automatically open releasing the die head from the thread. No more reverse run back required. By using this type of die head valuable time is saved and die wear is considerably reduced.

Nipple Attachments

A full range (3.8"-2" n.b.) of Nipple Attachments are available for the manufacture of barrel nipples used extensively in pipework installation.

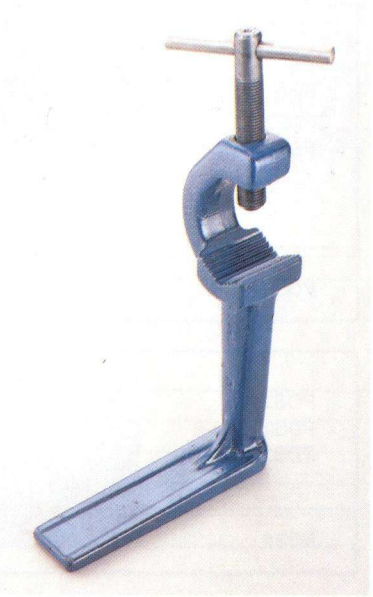
Pipe Clamps

(standard with PDS)

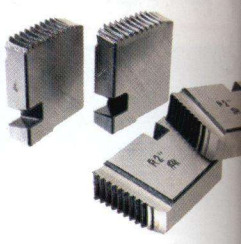
DSA822-1/8-1.1/4
DSA823-1/8-2

Each Power Die Stock set is supplied with the appropriate pipe clamp as standard.

The purpose of the clamp is to support the machine on the pipe or rod whilst the thread is produced.



Power Die Stock Die Heads & Dies



To Fit Power Die Stock No	Thread Type	Size	Die Head Cat No.	Dies Cat No.
PDS1.1/4 PDS2 PDS32	BSPT	1/8″ 1/4″ 3/8″ 1/2″ 3/4″ 1″ 1.1/4″	SDH200 SDH201 SDH202 SDH203 SDH204 SDH205 SDH206	SD400 SD401 SD402 SD403 SD404 SD405 SD406
PDS2		1.1/2″ 2″	SDH207 SDH208	SD407 SD408
PDS1.1/4 PDS2 PDS32	BSPP	1/8″ 1/4″ 3/8″ 1/2″ 3/4″ 1″ 1.1/4″	PADH220 PADH221 PADH222 PADH223 PADH224 PADH225 PADH226	OD400 OD401 OD402 OD403 OD404 OD405 OD406
PDS2		1.1/2″ 2″	PADH227 PADH228	OD407 OD408
PDS1.1/4 PDS2 PDS32	METRIC CONDUIT	16mm 20mm 25mm 32mm	ODH160 ODH200 ODH250 ODH320	OD416 OD420 OD425 OD432
PDS1.1/4 PDS2 PDS32	NPT	1/8″ 1/4″ 3/8″ 1/2″ 3/4″ 1″ 1.1/4″	SDH500 SDH501 SDH502 SDH503 SDH504 SDH505 SDH506	SD500 SD501 SD502 SD503 SD504 SD505 SD506
PDS2		1.1/2″ 2″	SDH507 SDH508	SD507 SD508
PDS1.1/4 PDS2 PDS32	AUTOMATIC BSPT	3/8″ 1/2″ 3/4″ 1″ 1.1/4″	ADH212 ADH213 ADH214 ADH215 ADH216	AD402 AD403 AD404 AD405 AD406
PDS2		1.1/2″ 2″	ADH217 ADH218	AD407 AD408

Punners, Tampers & Fencing Mauls

There are two characteristics which make Record Contractor's Tools superior to the competition.

First of all, the head castings are produced in our own Disamatic foundry, solid, high quality homogeneous grey iron castings with good damping properties. Second, a choice of shafts which allow you to select just the right tool on the basis of cost and/or function.

All our Punners, Tampers and Fencing Mauls are available with low-cost Hardwood shafts.

All Punners and Tampers give you the choice of hardwood or strong, durable tube steel.

Finally, Square Punners are available with shafts of Hardwood, tube steel or bonded fibreglass: a material which being shock absorbent, comfortable to use and strong as steel is perfect for this application.

Shaft Replacement

To ensure a safe secure fit always choose Record replacement shafts.

Punner Square Head

Ramming tools for consolidating earth, hardcore and tarmac.

Hardwood Shafts		Tubular Steel Shafts		Safety Bonded Fibreglass Shafts	
Cat No.	Size	Cat No.	Size	Cat. No.	Size
SP7	7lb	SP7S	7lb	SP7FG	7lb
SP10	10lb	SP10S	10lb	SP10FG	10lb
SP12	12lb	SP12S	12lb	SP12FG	12lb
SP14	14lb	SP14S	14lb	SP14FG	14lb

Tamper-Square Head

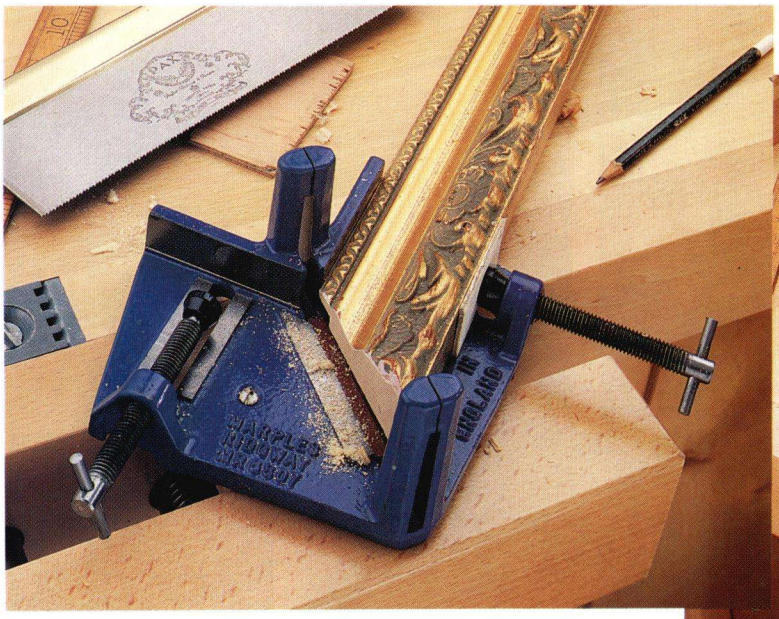
Used for finishing work on asphalt surfacing etc. The TAM20 is designed for finishing close up to walls where mechanical rollers would leave a ridge.

TAM10	10lb	TAM10S	10lb		

Fencing Mauls

For driving home fencing posts. Fitted with hickory shafts for shock resistance.

FM12	12lb				
FM14	14lb				
FM16	16lb				
FM18	18lb				
FM22	22lb				



MITRE CUTTING & CORNER CRAMPS

FLOORING CRAMP MFC153

BENCH SCREWS

Special Cramps & Vices

MITRE CUTTING & CORNER CRAMPS

Mitreing demands accuracy, care and the best equipment. The Record MR6807 is made to make mitre cutting as simple as possible.

The body is a rigid grey iron casting with the saw guides and cramping faces precision machined to ensure clean cut 45° corners. In additon the saw guide grooves are fitted with replaceable fibre pads to protect the teeth of the saw. Capacity 2"/50 mm x 1.3/4"/44 mm mouldings.

Accurate mitre cramping is provided by the light duty Record **M140** with a max. capacity of 2"/50 mm or the heavy duty **M141** wi a generous 4"/100 mm capacity.

Solid grey iron cast bodies, precision machined cramping surface and an open design give a positive location and easy access for gluein and nailing.

All these mitre cramps are drilled with two countersunk holes for fixing to a wood block which can then be secured between the jaws o a bench vice.

FLOORING CRAMP MFC153

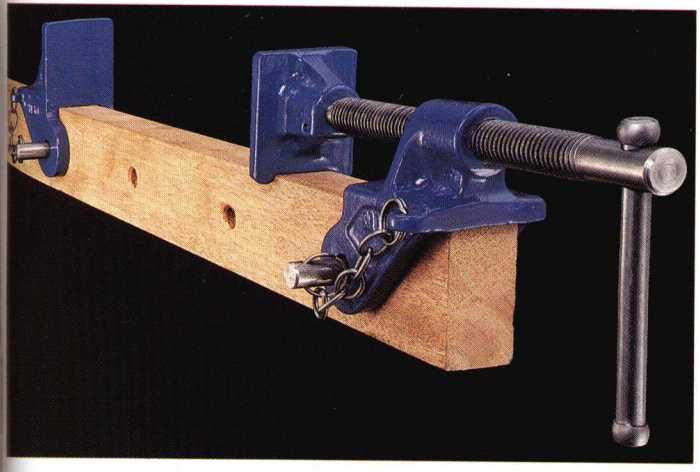
Designed to close up floor boards prior to nailing this compact an robust cramp has two spring loaded cams which stradle the joist, holding the cramp firmly in position. Turning the handle then moves th shoe forward pushing the floorboard into position.

BENCH SCREWS

A bench screw is the mainscrew and drop handle from a Record vice supplied with a cast iron nut and collar.

Our photograph shows a typical application where a bench screw has been used to make a bench mounted shoulder vice, but they ca also be applied to many cramping and pressing applications.

Cat No.	Overall length		Screw Dia.	
	in	mm	in	mm
165/14	14	355	1	25
165/16	16	406	1	25
165/18	18	457	1	25



CRAMP HEADS 130

Cramp heads are a low cost alternative to the full size bar cramps shown on page 24. The cast grey iron head and slide with steel mainscrew and securing pins can be fitted to a wooden batten 1"/25 mm thick by 1.1/2"/38 mm wide, and of any desired length.

The timber is then drilled with two 3/8"/9.5 mm dia holes producing a light duty bar cramp as strong and true as the timber you choose.

TAIL VICE 62

This traditional bench mounted design can also be used as a shoulder vice. High quality grey iron castings, solid steel guide rods and mainscrew with a 2 start acme thread provide a fast, accurate and robust gripping action. The solid beechwood jaw measures 9.1/2"/241 mm wide x 3"/75 mm deep x 1.5/8"/41 mm thick and is fitted with a dog for use in conjunction with a bench stop.

Genuine Record Spares

A comprehensive range of spare parts is available for all the products shown in this catalogue. Each is a production component manufactured to the same standard as the parts fitted to the original tool.

It is all part of our customer service, and a very important part, since it means that the useful life of the tool can be extended and that even after years of service the replacement of a few minor components can restore expensive equipment to full working order.

Even tools which are no longer manufactured are allowed for by a five year stock margin from the date of discontinuation. A complete illustrated list of all our current spares can be found on the back pages of our current Price and Product List. Most should be available from your local Record Stockist, but if you have any difficulty, contact our Sales Office direct. For safety and reliability fit only Record Spare Parts to Record Products.

Index

A
ASPHALT TAMPERS 93

B
BACK NUT WRENCH 54
BAR CRAMPS 23
BAR CRAMPS – SASH 24
" " – T-BAR 24
BENCH PLANES 27
BENCH SCREWS 94
BENDING MACHINES
(see Pipe Benders)
BOLT CUTTERS 33–38
BLOCK PLANES 28
BULL NOSE PLANES 30

C
CABLE CUTTERS 39–41
CHAIN PIPE WRENCHES 53,54
CRAMPS:
" G 20–22
" BAR 23–25
CHAIN PIPE VICES 60
CIRCULAR PLANE 31
COMBINATION PLANE 32
COMBINATION PLIERS 43
CORNER CRAMPS 94
CRAMP HEADS 94

D
DE-BURRER 57
DEEP THROAT CRAMP 21
DIAGONAL CUTTING NIPPERS 45
DIE STOCKS (POWERED) 88–92
DRILL PRESS VICES 12

E
ELECTRICIANS PLIERS 43–46

F
FENCING MAULS 93
FIBRE GRIPS (for vices) 15
FLOORING CRAMP 94

G
G-CRAMPS 20–22
GLASS PLIERS 44

H
HANDIBENDER 70
HAND PUNCH 46
HANDIWRENCH 54

J
JACK PLANES 27
JEWELLER'S SHEARS 48

L
'LEADER' PIPE WRENCHES 52
LINK PIPE CUTTERS 56

M
MAGNETIC JAW PLATES 15
'MINI' BENDER 72
'MIDI' BENDER 72
MITRE CRAMP 94

N
NIPPERS 45

P
PIPE BENDERS 62
(see also Powered Pipe Benders)
" UNIVERSAL 64
" COPPER & STAINLESS STEEL 65
" CONDUIT & MED. GAUGE STEEL 66
" BENCH 67
" FORMERS & GUIDES 69
" COPPER 70,71
POWERED PIPE BENDERS: 73
3/8" to 2" Manual Hydraulic 74
3/8" to 2" Electro Hydraulic 74
3/8" to 6" Manual Hydraulic 75
3/8" to 6" Electro Hydraulic 75
Formers 76
PIPE CUTTERS 55–58
PIPE CUTTING SAWS (powered) 58
PLANES: 26
" BENCH 27
" BLOCK 28
" REBATE 29
" SHOULDER 30
" BULL NOSE 30
" THREE IN ONE 30
" CIRCULAR 31
" PLOUGH/COMBINATION 32
PLIERS 42–46
PIPE THREADERS (Powered) 77–87
PIPE VICES 59
PIPE WRENCHES 50–54
POWER DIE STOCKS 88
PUNNERS 93

R
REBATE PLANES 29
RADIO PLIERS 44
REVERSIBLE VICE 11

S
SASH CRAMPS 24
SLIP JOINT PLIERS 46
SPEED CRAMPS 24
SHOULDER PLANES 30
SNIPE NOSE PLIERS 44
SNIPS & SHEARS 47–49
'SOFT OPTIONS' VICE JAWS 1
'SOLO 15' BENDER 71
SPOKESHAVES 31
STILLSON WRENCHES 51
SWIVEL BASES 14

T
TABLE VICE 14
TAIL VICE 94
TAMPERS 93
T-BAR CRAMPS 24
TINMEN'S SNIPS & SHEARS 4
TRIPOD STANDS 61
TUBE BENDERS 72
TUBE CUTTERS 57
THREADING MACHINES 77

V
VICES (Metalworking) 4
" MECHANICS 5
" WITH SWIVEL BASE 6,10,1
" FITTERS 7
" ENGINEERS 8,9
" MULTI PURPOSE 10
" REVERSIBLE 11
" DRILL PRESS 12
" HOBBY 14
" TABLE 14
" ACCESSORIES 14,15
" STANDS 61
VICES (Woodworking) 16

W
WOODWORKING VICES 16
" WOODCRAFT 17
" PLAIN SCREW 18
" QUICK RELEASE 18,19
" DOG 19
WIRE CUTTERS 40
WIRE STRIPPER 45
WRENCHES PIPE 50
" CHAIN PIPE 53
" BACK NUT 54

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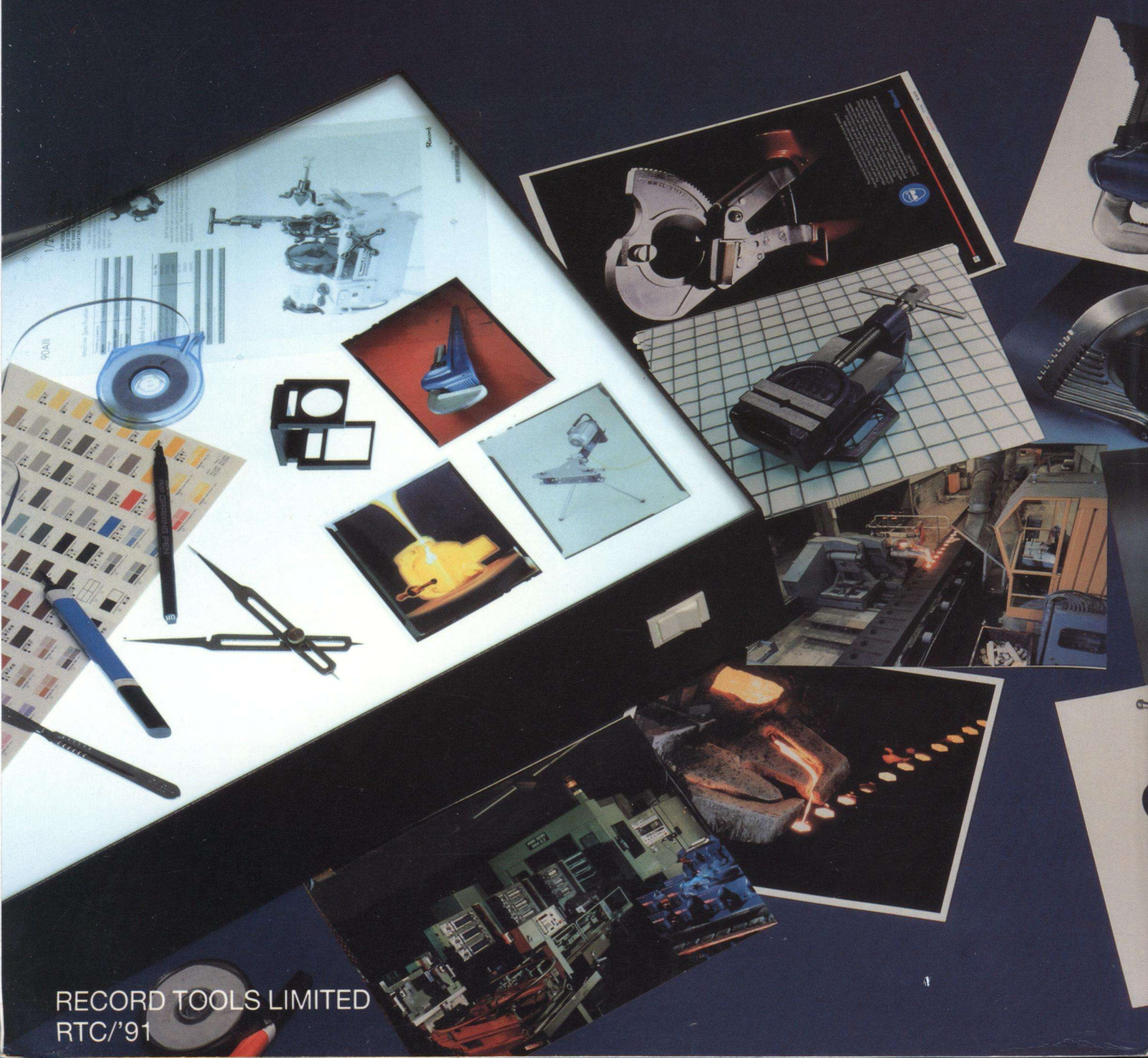
Record Tools

hand & power TOOLS catalogue

Record



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